

20011125.qrp v02_n384.qrl.20011125

Date: Sun, 25 Nov 2001 19:03:10 EST
From: qrp-l@Lehigh.EDU
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: QRP-L digest 2384

QRP-L Digest 2384

Topics covered in this issue include:

- 1) [112736] Re: 13.5 MHz IF Anybody?
by "Mark J. Dulcey" <mark@buttery.org>
- 2) [112737] Re: 13.5 MHz IF Anybody
by "James R. Duffey" <jamesd1@flash.net>
- 3) [112738] Re: [Elmer 101] PCB prep
by "Brian Murrey" <brian@iquest.net>
- 4) [112739] Re: [Elmer 101] Soldering and board prep
by "Brian Murrey" <brian@iquest.net>
- 5) [112740] Re: [Elmer 101] RF Probe - 1N914 sub?
by "Brian Murrey" <brian@iquest.net>
- 6) [112741] Re: [Elmer 101] PCB prep
by Donn Kuse <casey.jay@gte.net>
- 7) [112742] Re: [Elmer 101] PCB prep
by "ZOOM" <kandrparker@sympatico.ca>
- 8) [112743] RE: 13.5 MHz IF Anybody?
by Nick Kennedy <nkennedy@tcainternet.com>
- 9) [112744] Re: [[Antennas] Tuner question]
by Michael Goins <mgoins@usa.net>
- 10) [112745] Re: 13.5 MHz IF Anybody
by Steve Smith <sigcom@juno.com>
- 11) [112746] Re: [Elmer 101] -- dumb soldering questions
by "John O. Newell" <jnewell@mediaone.net>
- 12) [112747] RE: 13.5 MHz IF Anybody
by "James R. Duffey" <jamesd1@flash.net>
- 13) [112748] Mounting Small 10-turn Dials..
by "William Phinzy" <k6whp@gte.net>
- 14) [112749] Warbler-80 receive modification..help!
by "Kevin Philbin" <oz2dkp@hotmail.com>
- 15) [112750] Re: [Elmer 101] -- dumb soldering questions
by "Mike Yetsko" <myetsko@insydesw.com>
- 16) [112751] CQ WWDX midterm
by "Karl F. Larsen" <k5di@zianet.com>
- 17) [112752] RE: Adel nibbling tool, source found
by "AI2Q Alex" <ai2q@adelphia.net>
- 18) [112753] [Elmer 101] Re: Soldering Technique
by George Gingell <k3tks@u1.abs.net>
- 19) [112754] Re: Ear Wax Removal

- by "Jack Ricci" <ricci@mnsi.net>
- 20) [112755] Re: Soldering and board prep
by David Hinerman <wd8civ@worldnet.att.net>
- 21) [112756] Magnetic loop pictures
by Alex <kr1st@amsat.org>
- 22) [112757] Is it just me...
by "Rod NØRC" <rod@nØrc.com>
- 23) [112758] Info on Lowe HF 150 Rx
by K5BDZ@aol.com
- 24) [112759] Re: [Elmer 101] PCB prep
by Bill ROWLETT <kc4atu@yahoo.com>
- 25) [112760] PI output network theory question
by WE7X@aol.com
- 26) [112761] DB-9 connector question
by "Dave Benham" <dodgeboy@mindspring.com>
- 27) [112762] Re: DB-9 connector question
by "Mark J. Dulcey" <mark@buttery.org>
- 28) [112763] Re: PI output network theory question
by "Mike WA8BXN" <hubby2k@hotmail.com>
- 29) [112764] CQWW DX
by "Alan Kaul" <alan.kaul@worldnet.att.net>
- 30) [112765] Re: OT: Ear Wax Removal
by Bruce Muscolino <w6toy@erols.com>
- 31) [112766] Re: Is it just me...
by "Mike WA8BXN" <hubby2k@hotmail.com>
- 32) [112767] Re: PI output network theory question
by "DTX" <dtx@wood.tzo.com>
- 33) [112768] Re: DB-9 connector question
by "Mike WA8BXN" <hubby2k@hotmail.com>
- 34) [112769] Re: [Elmer 101] RF Probe - 1N914 sub?
by Bruce Muscolino <w6toy@erols.com>
- 35) [112770] Re: www.eQSL.cc
by Bruce Muscolino <w6toy@erols.com>
- 36) [112771] Re: [Elmer 101] PCB prep
by Bruce Muscolino <w6toy@erols.com>
- 37) [112772] Re: [Elmer 101] PCB prep
by Bruce Muscolino <w6toy@erols.com>
- 38) [112773] Re: [Elmer 101] -- dumb soldering questions
by Bruce Muscolino <w6toy@erols.com>
- 39) [112774] Re: [Elmer 101] -- dumb soldering questions
by Bruce Muscolino <w6toy@erols.com>
- 40) [112775] Re: [Elmer 101] PCB prep
by Bruce Muscolino <w6toy@erols.com>
- 41) [112776] Re: Ear Wax Removal
by "Karl F. Larsen" <k5di@zianet.com>
- 42) [112777] Re: Is it just me...
by "Karl F. Larsen" <k5di@zianet.com>
- 43) [112778] Re: Info on Lowe HF 150 Rx

by euramcom pages <mel@euramcom.freeserve.co.uk>
44) [112779] Re: PI output network theory question
by "Karl F. Larsen" <k5di@zianet.com>
45) [112780] RE FT : RH 40
by "Pastor-KC1DI" <elbc@pivot.net>
46) [112781] Re: Warbler-80 receive modification..help!
by "Michael C. Boatright" <ko4wx@mindspring.com>
47) [112782] Re: Ear Wax Removal
by "Leon Heller" <leon_heller@hotmail.com>
48) [112783] Re: DB-9 connector question
by "Leon Heller" <leon_heller@hotmail.com>
49) [112784] Re: OT: Ear Wax Removal
by W2AGN <w2agn@pobox.com>
50) [112785] Re: Info on Lowe HF 150 Rx
by "Leon Heller" <leon_heller@hotmail.com>
51) [112786] Re: DB-9 connector question
by mikemo@attglobal.net
52) [112787] test message
by "Thom Durfee" <wi8w@arrl.net>
53) [112788] proposal for dealing with OT
by "Rod N0RC" <rod@n0rc.com>
54) [112789] Need Noise Generation Board to Use with Spectrogram
by "Craig W. Behrens" <craigwb@hiwaay.net>
55) [112790] Re: 13.5 MHz IF Anybody
by "Jim Kortge, K8IQY" <jokortge@prodigy.net>
56) [112791] Re: proposal for dealing with OT
by "George, W5YR" <w5yr@att.net>
57) [112792] Fw: 13.5 MHz IF Anybody
by "Steve/n0tu" <n0tu@qsl.net>
58) [112793] Re: 13.5 MHz IF Anybody
by "Jim Kortge, K8IQY" <jokortge@prodigy.net>
59) [112794] Re: DB-9 connector question
by "Bill, N4QA" <n4qa@hotmail.com>
60) [112795] Re: 13.5 MHz IF Anybody
by "Brice D. Hornback" <bdh@cyberbound.net>
61) [112796] Ear Wax and QRP
by "W. Keith Hibbert" <wb2vuo@frontiernet.net>
62) [112797] Re: Warbler-80 receive modification..help!
by "ZOOM" <kandrparker@sympatico.ca>
63) [112798] FS: QRP+ and Miricle Whip
by "J.K. Chapman" <jkchappy@yahoo.com>
64) [112799] Galapagos with 817 on 6 meters!
by "Len Revelle" <lenrev@ameritech.net>
65) [112800] Ten Meters!
by "Karl F. Larsen" <k5di@zianet.com>
66) [112801] Re: Is it just me...
by Steve Yates - AA5TB <aa5tb@arrl.net>
67) [112802] Re: proposal for dealing with OT

by Bill ROWLETT <kc4atu@yahoo.com>
68) [112803] Re: proposal for dealing with OT
by "Karl F. Larsen" <k5di@zianet.com>
69) [112804] Elmer 101- shipment delay
by "William Phinizy" <k6whp@gte.net>
70) [112805] Re: 13.5 MHz IF Anybody
by "Leon Heller" <leon_heller@hotmail.com>
71) [112806] RE: absorptive bridge
by "Mike WA8BXN" <hubby2k@hotmail.com>
72) [112807] Re: Is it just me...
by "Louie" <lou@harborside.com>
73) [112808] Re: Need Noise Generation Board to Use with Spectrogram
by "Bob Hightower" <nk7m@extremezone.com>
74) [112809] Re: Elmer 101- shipment delay
by "Steve Thompson" <steve@xcvr.com>
75) [112810] DELETE if not interested. How I deal with OT subjects.
by Alex <kr1st@amsat.org>
76) [112811] SPICE and crystal ladder filter design
by "Leon Heller" <leon_heller@hotmail.com>
77) [112812] Re: Is it just me...
by "Brice D. Hornback" <bdh@cyberbound.net>
78) [112813] =?iso-8859-1?Q?SGC=2D2=D82=D8?=
by Garie Halstead <k8kfj@ntelos.net>
79) [112814] more on the absorptive bridges....
by "Mike WA8BXN" <hubby2k@hotmail.com>
80) [112815] email problems
by Alex <kr1st@amsat.org>
81) [112816] October QQ
by "Thom Durfee" <wi8w@arrl.net>
82) [112817] Fw: [Elmer 101] -- dumb soldering questions
by "Ted Williams" <ted@g0ull.fsnet.co.uk>
83) [112818] Fw: [Elmer 101] PCB prep
by "Ted Williams" <ted@g0ull.fsnet.co.uk>
84) [112819] Re: Need Noise Generation Board to Use with Spectrogram
by "Rod N0RC" <rod@n0rc.com>
85) [112820] RE: more on the absorptive bridges....
by "AI2Q Alex" <ai2q@adelphia.net>
86) [112821] Juno's dam has burst!
by Bill Lazure <n2tpa@juno.com>
87) [112822] Re: DELETE if not interested. How I deal with OT subjects.
by "Frank Emens" <femens@hiwaay.net>
88) [112823] Re: Need Noise Generation Board to Use with Spectrogram
by "George, W5YR" <w5yr@att.net>
89) [112824] Re: Need Noise Generation Board to Use with Spectrogram
by "Bob Tellefsen" <n6wg@earthlink.net>
90) [112825] RE: [112682] Re: 13.5 MHz IF Anybody?
by Brian Kassel <bkassel@dancris.com>
91) [112826] Refurbished Telescoping Masts

by "Bob Tellefsen" <n6wg@earthlink.net>

92) [112827] Re: proposal for dealing with OT
by "Jerry McCollom" <w0mc@frii.com>

93) [112828] Re: proposal for dealing with OT
by baltimoremd@baltimoremd.com

94) [112829] Re: DB-9 connector question
by "Mark J. Dulcey" <mark@buttery.org>

95) [112830] Re: proposal for dealing with OT
by W2AGN <w2agn@pobox.com>

96) [112831] Re: Is it just me...
by "Mike Yetsko" <myetsko@insydesw.com>

97) [112832] Re: OT: Ear Wax Removal
by "Mike Yetsko" <myetsko@insydesw.com>

98) [112833] Re: Need Noise Generation Board to Use with Spectrogram
by "Mark J. Dulcey" <mark@buttery.org>

99) [112834] Re: Warbler-80 receive modification..help!
by "Michael C. Boatright" <ko4wx@mindspring.com>

100) [112835] Re: DELETE if not interested. How I deal with OT subjects.
by "Ken Wezeman" <ken@alassociates.com>

101) [112836] RE: [112682] Re: 13.5 MHz IF Anybody?
by "Leon Heller" <leon_heller@hotmail.com>

102) [112837] Re: CQWWDX 10 is open a tiny bit
by "Jim FitzSimons" <cherry@getnet.net>

103) [112838] Re: Refurbished Telescoping Masts
by kb1dxc@discovernet.net (kb1dxc)

104) [112839] Re: DELETE if not interested. How I deal with OT subjects.
by Pete Burbank <plburbank@kih.net>

105) [112840] Re: OT: Ear Wax Removal
by "George, W5YR" <w5yr@att.net>

106) [112841] An OT Comment About OT Discussions :{)
by Chris Trask <ctrask@primenet.com>

107) [112842] Re: [azqrp] Hamfest at Mesa CC
by "Bob Hightower" <nk7m@extremezone.com>

108) [112843] Re: [Elmer 101] -- dumb soldering questions
by =?ISO-8859-1?Q?"KB=D8VCC"?= <kb0vcc@yahoo.com>

109) [112844] Moderation
by "Mike WA8BXN" <hubby2k@hotmail.com>

110) [112845] Re: [Moderation]
by Michael Goins <mgoins@usa.net>

111) [112846] Re: [Moderation]
by "w2wurjj@bellatlantic.net" <w2wurjj@bellatlantic.net>

112) [112847] [Elmer 101] RF Probe
by "Brice D. Hornback" <bdh@cyberbound.net>

113) [112848] YAQ: Installing a TiCK keyer in an OHR 100..
by "William Phinizy" <k6whp@gte.net>

114) [112849] Re: [Elmer 101] -- dumb soldering questions
by "Mike Yetsko" <myetsko@insydesw.com>

115) [112850] Re: [Elmer 101] -- dumb soldering questions

by "Rod N0RC" <rod@n0rc.com>
116) [112851] Re: [Elmer 101] RF Probe
by "Rod N0RC" <rod@n0rc.com>
117) [112852] Measuring xtal parameters for filters
by "Leon Heller" <leon_heller@hotmail.com>
118) [112853] Re: Ear Wax Removal
by Bruce Muscolino <w6toy@erols.com>
119) [112854] Re: 13.5 MHz IF Anybody
by Bruce Muscolino <w6toy@erols.com>
120) [112855] Re: Ear Wax and QRP
by Bruce Muscolino <w6toy@erols.com>
121) [112856] RE: PI output network theory Question
by WE7X@aol.com
122) [112857] Re: [Elmer 101] RF Probe
by "Brice D. Hornback" <bdh@cyberbound.net>
123) [112858] Re: [Moderation]
by Bruce Muscolino <w6toy@erols.com>
124) [112859] Re: Is it just me...absorptive bridge info (long)
by Lew Paceley <lew@paceley.com>
125) [112860] KIT: ... Noise Generation Board to Use
by "Dave Benson" <nn1g@earthlink.net>
126) [112861] Re: Magnetic loop pictures
by "Bill Jones" <kd7s@psnw.com>
127) [112862] Re: Need Noise Generation Board to Use with Spectrogram
by Steven Weber <kd1jv@moose.ncia.net>
128) [112863] KD1JV's power meter kit
by Russell Hines <wb8zcc@one.net>
129) [112864] Re: [Elmer 101] -- dumb soldering questions
by Haines Brown <brownh@hartford-hwp.com>
130) [112865] CQ WWDX
by "Karl F. Larsen" <k5di@zianet.com>
131) [112866] [Elmer 101] update
by mikemo@attglobal.net
132) [112867] Re: KD1JV's power meter kit
by "Dave Marling" <dbm@klis.com>
133) [112868] [Elmer 101] pc board prep
by mikemo@attglobal.net
134) [112869] multiple emails
by jccurlee@juno.com
135) [112870] Re: [Elmer 101] RF Probe
by mikemo@attglobal.net
136) [112871] Re: proposal for dealing with OT
by Ted Kell <tedkell@ev1.net>
137) [112872] Re: [Elmer 101] RF Probe
by "Brice D. Hornback" <bdh@cyberbound.net>
138) [112873] Re: Ear Wax Removal
by "Francis Callahan" <colcal@srv.net>
139) [112874] Re: Magnetic loop pictures

by Alex <kr1st@amsat.org>
140) [112875] Re: proposal for dealing with OT
by "Louie" <lou@harborside.com>
141) [112876] Re: CQ WWDX
by Bruce Muscolino <w6toy@erols.com>

Date: Sat, 24 Nov 2001 18:58:25 -0500
From: "Mark J. Dulcey" <mark@buttery.org>
To: n6wg@earthlink.net
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [112736] Re: 13.5 MHz IF Anybody?
Message-ID: <3C003421.8080708@buttery.org>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit

Bob Tellefsen wrote:

> Hi Jim
> Question--"With the simple spectrum analyzer programs available for home
> computers the
> results of experimentation can be seen very quickly."
>
> The only computer-based spectrum analyzer programs I've seen are for the
> audio spectrum, maybe up to 20 kHz or so. How were you anticipating using
> them to analyze a crystal filter? Or do you know of something that works at
> the more normal IF frequencies?

You can use computer software like Spectrogram to analyze the shape of
an IF filter, even though it doesn't work at IF frequencies. But you
can't just test the filter all by itself; you'll have to follow it with
a mixer, and look at the shape of the passband at audio frequencies.

No computer that I am familiar with can capture digital data quickly
enough to do IF spectrum analysis without additional hardware.

Date: Sat, 24 Nov 2001 17:12:27 -0700
From: "James R. Duffey" <jamesd1@flash.net>
To: <qrp-l@lehigh.edu>
Subject: [112737] Re: 13.5 MHz IF Anybody
Message-ID: <B8258579.F445%jamesd1@flash.net>
Mime-version: 1.0
Content-type: text/plain; charset="US-ASCII"

Content-transfer-encoding: 7bit

Bob - Sorry - I left some things out. I had intended to test these in a receiver. Put a broad band noise source in the input and look at the output on the computer. Of course this requires some additional work, but that shouldn't be too hard. - Duffey

--

James R. Duffey KK6MC/5
Cedar Crest, NM DM65

Date: Sat, 24 Nov 2001 19:28:36 -0500
From: "Brian Murrey" <brian@iquest.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [112738] Re: [Elmer 101] PCB prep
Message-ID: <007b01c17548\$200b6f80\$ebacf6ce@iquest.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Dave,

RIGHT-O!!

Whew, I never even thought of the silk screened board when I posted that message. You are 100% correct about my messaging describing how I prep a BLANK COPPER CLAD board. I would NOT sand a preprinted, drilled, screen board. OUCHIE WAH WAH!

73

----- Original Message -----

From: "Dave Benson" <nn1g@earthlink.net>
To: <brian@iquest.net>; "Low Power Amateur Radio Discussion"
<qrp-1@Lehigh.EDU>
Sent: Saturday, November 24, 2001 7:15 PM
Subject: Re: [Elmer 101] PCB prep

> gang-

>

> (The subject line reads 'Elmer 101', so my ears perked up)

>

> Brian is referring to cleaning up a *blank* copper-clad board prior to using

> it for prototyping or 'ugly construction',and it's a good pointer for anyone
> following the Elmer discussions and about to build alongside 'from scratch'.
> I use a steel-wool soap pad from the kitchen for the same purpose.
>
> On the other hand, the Elmer 101 Printed-Circuit Board (from the SW+ kit)
> does *NOT* need a good going-over with sandpaper. Don't even consider it!
>
> Thanks & 73- Dave Benson, K1SWL
>
>
> -----Original Message-----
> From: Brian Murrey <brian@iquest.net>
> To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
> Date: Saturday, November 24, 2001 11:47 AM
> Subject: [Elmer 101] PCB prep
>
>
> I have been reading opinions on prepping PCB material for solder. I usually
> just take mine to the table, and using a very fine sand paper, give it a
> good going over. Then wash it with soap and hot water to make sure I get all
> the packing oil off. Then just dry it with a towel and let it sit for about
> an hour air drying before applying solder and parts.
>
> Seems to have worked for me so far. Anything wrong with this method?
>
>
>
> =====
> KB9BVN NORCAL 2792 FISTS 5695 QRP-L 1540 QRP-ARCI 10223
> 39.558 N 86.095 W Johnson Co., Indiana
> GRID: EM69WN - Ten Tec Scout - Attic Dipole - 5w
> Member of the American Radio Relay League - SOC #400
> FISTS Century Club #764/#24 QRP - Flying PIG QRP #-57
> =====
>
>
>

Date: Sat, 24 Nov 2001 19:33:11 -0500
From: "Brian Murrey" <brian@iquest.net>

To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [112739] Re: [Elmer 101] Soldering and board prep
Message-ID: <008901c17548\$c3ffc960\$ebacf6ce@iquest.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Al,

Although I've only built a few kits and boards, I have ALWAYS kept a nice stick style eraser handy for buffing off pads, connectors, edge cards, etc etc. A couple of light "scrubs" and everything seems to brighten up and accepts solder much better.

I like the little pink type better than the more abrasive white ink erasers.

Leaves less residue too.

73

----- Original Message -----

From: "AL SCHWARZ" <al_ae0al@hotmail.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Sent: Saturday, November 24, 2001 4:55 PM
Subject: Re: [Elmer 101] Soldering and board prep

>
> Ok Guys don't flame me if I don't do this exactly right
> it is my first comment to the elmer 101 group.
>
>
> I have built a few kits and made a few projects in my time
> and an old friend let me help him build a Heathkit HW-8. He
> carefully cleaned each component of it's black tarnished lead
> with an eraser the large rectangle with tapered ends.
>
> I use it to brighten the copper pads before starting. I then use
> alchol to clean away any grease and dirt. Old toothbrush is great here and
> for clean up as you go. I recently read that modern flux is not as bad as
> the old stuff and could be left on but I like to clean it off as I go.
Each
> resistor, capacitor, diode even IC pins (caution advised here and use ESD
> procedures) get erased before incerting them into the hole.
> A simple finger pressure holding the component lead on the eraser and
> tugging it out a time or two cleans off any dirt slic as a anything. and
is

> non abrasive small and easy to hold. Clean components solder much better
> and
> even beter on clean pads.
>
> 73 AE0AL
>
>
>
> -----
> Get your FREE download of MSN Explorer at <http://explorer.msn.com/intl.asp>
>
>

Date: Sat, 24 Nov 2001 19:36:21 -0500
From: "Brian Murrey" <brian@iquest.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [112740] Re: [Elmer 101] RF Probe - 1N914 sub?
Message-ID: <009501c17549\$3577f180\$ebacf6ce@iquest.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

And if your can't find any 914's, use a 1N4148.

If you need some 1N4148, send me a SASE and I'll send you a half dozen.

That goes for any of you Elmer 101 folks.

----- Original Message -----

From: "George, W5YR" <w5yr@att.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Saturday, November 24, 2001 6:31 PM
Subject: Re: [Elmer 101] RF Probe - 1N914 sub?

>
> Steve, as I recall the 1N34A is a germanium diode while the 1N914 is
> silicon. For probe use, I suspect that either would serve. If your design
> places several 34's in series this is to obtain the same voltage rating
> that the 914 has. Germanium runs about 0.2 volts drop across the diode
when
> turned on and silicon is about 0.6 to 0.7 volts. The 914 is widely used in
> digital circuitry as a general purpose device. Not so for the 1N34A which
> explains why RS doesn't stock it.

>
> BTW, the 1N34 (no A) was the very first semiconductor diode offered on the
> amateur market by Sylvania. I still have the one I bought in 1947 - paid
> \$1.50 for it which was about \$15-20 at today's prices.
>
> Try it with the 914 and if you have a problem, then you can order the
> 1N34A. But I bet the 914 will work fine. But, don't put three in series!
> <:}
>
> 72/73, George W5YR - the Yellow Rose of Texas QRP-L 1373 NETXQRP 6
> Fairview, TX 30 mi NE of Dallas in Collin county EM13qe SOC 262
> Amateur Radio W5YR, in the 56th year and it just keeps getting better!
> Icom IC-756PRO #02121 Kachina #91900556 IC-765 #02437
>
>
> Steve Thompson wrote:
> >
> > Hi,
> >
> > Chasing down a 1N34A diode (for an RF probe) this afternoon was not as
> easy as I expected. Radio Shack sells them ... but it's special order, and
> I don't want to wait a week (and pay shipping and handling) for a 32 cent
> part.
> >
> > They do sell the 1N914 "in stock" at the local Rat Shack store. I am
> not educated on how to compare the properties of each, so I don't know if
> the 914 would be a "good enough" substitute for the 1N34A.
> >
> > What do the "RF Probe experts" think? Thanks in advance.
> >
> > 72,
> > Steve N7TX
> > Irving, TX
>

Date: Sat, 24 Nov 2001 19:38:03 -0500
From: Donn Kuse <casey.jay@gte.net>
To: w6toy@erols.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [112741] Re: [Elmer 101] PCB prep
Message-ID: <3C003D6A.4E8003B0@gte.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi all,
OK, here's another question: How do you tell that a board is not solder masked? And just what does solder masked mean? Tnx.
73, Donn, WB4ZWT
66 and still trying to learn

Bruce Muscolino wrote:

> Dave,
>
> I beg to differ. There are still boards made and sold that are not
> solder masked. These boards can and often do require a thorough
> scrubbing before soldering. Also, the condition of the copper pads on a
> solder masked board depend on how it was stored and its age!
>
> 73

Date: Sat, 24 Nov 2001 19:52:05 -0500
From: "ZOOM" <kandrparker@sympatico.ca>
To: <casey.jay@gte.net>,
"Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [112742] Re: [Elmer 101] PCB prep
Message-ID: <016301c1754b\$67597f00\$3294fea9@robertpa>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

A solder mask prevents solder from flowing outward from the pad. Solder will flow only where there is no mask i.e. the pad. Makes for neater soldering too but that's based on your ability as well! It's a coating (usually green). Basically think of it as a solder corral! TenTec kits are not soldermasked however. This is evident since all you see is bare copper traces.
Yeeeeeha, tame that solder!

----- Original Message -----
From: Donn Kuse <casey.jay@gte.net>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Sent: Saturday, November 24, 2001 7:38 PM
Subject: Re: [Elmer 101] PCB prep

> Hi all,
> OK, here's another question: How do you tell that a board is not solder

> masked? And just what does solder masked mean? Tnx.
> 73, Donn, WB4ZWT
> 66 and still trying to learn
>
> Bruce Muscolino wrote:
>
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> > I beg to differ. There are still boards made and sold that are not
> > solder masked. These boards can and often do require a thorough
> > scrubbing before soldering. Also, the condition of the copper pads on a
> > solder masked board depend on how it was stored and its age!
> >
> > 73
>

Date: Sat, 24 Nov 2001 19:44:22 -0600
From: Nick Kennedy <nkennedy@tcainternet.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [112743] RE: 13.5 MHz IF Anybody?
Message-ID: <01C17520.6ABA92E0.nkennedy@tcainternet.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit

>Where is that crystal checker schematic? - Dr. Megacycle KK6MC/5 "Radio
>Green Chile"

I guess the Doc's question was rhetorical, but ...

There are two articles on designing crystal filters in "W1FB's Design Notebook" (ARRL). These articles included circuits you can build to determine crystal parameters. In a third article in the same book, W1FB (Doug DeMaw) integrates those circuits into one crystal testing instrument. A board for this tester is available from Far Circuits. (Just received mine this week.)

Another book, "QRP Power" (ARRL) also has two articles on building your own crystal filters.

I think for the homebrewer, one of the more mystique filled topics would have to be crystal filter design. If we can master that one, we can do about anything. I haven't tried designing crystal filters yet, but I hope to plunge in and take a hack at it soon.

Notwithstanding the general rule about things getting more difficult as frequency increases, 2 cents per crystal is pretty tempting. Now, can I find enough other stuff I "need" from Goldmine to justify the shipping?

72--Nick, WA5BDU

Date: 24 Nov 2001 20:51:07 EST
From: Michael Goins <mgoins@usa.net>
To: qrp-1@lehigh.edu
Subject: [112744] Re: [[Antennas] Tuner question]
Message-ID: <20011125015107.5596.qmail@uadvg009.cms.usa.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: quoted-printable

I use an ldg qrp tuner through about 60 feet of RG-58 into a homebrew multiband vertical dipole up 25 feet to the feedpoint. I've worked more than 175 countries on ssb with 1 watt or less of output measured with a Bird wattmeter. Have about 140 on cw at 1 watt, and about 50 or so on 1/2 watt or less. Tuner loss is relatively negligible in many cases. Not worth usually worrying about. =

IamSF5@aol.com wrote:

Hi Guys/Gals,

I have a question on tuners.

I really hate them I'm going to have to use one for a while.

LOSSES:

Does this mean that when you tune the tuner and both caps are 3/4 open means an =

loose coupling?

And when they are pretty much closed this means better coupling and less =

losses?.

Reason I asked is because when I tune the tuner with the noise bridge and=

a =

dummy load on the tuner, the caps are just about wide open.
The tuner is doing fine but I'm just thinking if I have a lot of loss.
Tuner dumb in NJ
Bob
WA2HOQ

Submissions: antennas@qth.net

Get free e-mail and a permanent address at <http://www.amexmail.com/?A=3D1=>

Date: Sat, 24 Nov 2001 17:57:55 -0800
From: Steve Smith <sigcom@juno.com>
To: qrp-1@Lehigh.EDU
Subject: [112745] Re: 13.5 MHz IF Anybody
Message-ID: <20011124.175755.2488.2.sigcom@juno.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Dr. MC (and group),

Wow! \$0.013 a crystal. Now that's my kind of pricing :-).

How about a 17 meter rig? The LO would come out in the 4.5 MHz range.

Hmmm.....Some cheapie crystals, then throw in some parts scrounged from
an old T.V. and/or VCR. Wonder what kinds of video amp. I.C.s can be
lifted from those for use as a TX driver. Hmmm.....

And a half-wave antenna for 17 is only 26 ft. long.

This could get interesting.

73.....Steve Smith, WB6TNL
Oxnard, CA USA
"Snort Rosin"

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Date: Sat, 24 Nov 2001 20:59:38 -0500
From: "John O. Newell" <jnewell@mediaone.net>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [112746] Re: [Elmer 101] -- dumb soldering questions
Message-ID: <3C00508A.3594FBD@mediaone.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

> The technique of clipping before soldering, I think, comes from NASA

Out of pure curiosity, why would NASA care? What was different about space applications that this "solved"? Was this a 60s thing (I remember them days, too! <g>), or does NASA still care?

72/73 es tnX
John Newell
KB1FPM

Date: Sat, 24 Nov 2001 19:17:40 -0700
From: "James R. Duffey" <jamesd1@flash.net>
To: <nkenedy@tcainternet.com>, qrp-l <qrp-l@lehigh.edu>
Subject: [112747] RE: 13.5 MHz IF Anybody
Message-ID: <B825A2D4.F452%jamesd1@flash.net>
Mime-version: 1.0
Content-type: text/plain; charset="US-ASCII"
Content-transfer-encoding: 7bit

Hey Nick - I was looking for a retort:

"I guess the Doc's question was rhetorical, but ."

and if you are looking for more things to order:

"Now, can I find enough other stuff I "need" from Goldmine to justify the shipping?"

You can order 5 boxes, 1500 crystals, for only \$18.00! - Keep in touch. -
Dr. Megacycle KK6MC/5 "Radio Green Chile"

--

James R. Duffey KK6MC/5
Cedar Crest, NM DM65

Date: Sat, 24 Nov 2001 19:05:43 -0800
From: "William Phinizy" <k6whp@gte.net>
To: "QRP-L" <qrp-l@Lehigh.EDU>
Subject: [112748] Mounting Small 10-turn Dials..
Message-ID: <002401c1755e\$1305b000\$7cad173f@k6whp>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

..I stumbled onto several of those small 10-turn counter dials (like the ones shown in the NE-4040 write-up in QRP Power. Sadly, they came without the mounting hardware. Anybody know what can be used to accomplish same? I had been using their larger behemoth brethren and they had a cylindrical nut along with a flange that held the dial in place. It appears that the smaller ones could be mounted to a panel with only a small protrusion from the panel -- a tiny set screw or something -- to maintain the dial's position.

Any ideas, suggestions, addresses of where mounting kits can be obtained, etc. would be gratefully appreciated.

Thanks in advance and 72,

Bill, K6WHP.

Date: Sat, 24 Nov 2001 19:15:28 -0800
From: "Kevin Philbin" <oz2dkp@hotmail.com>
To: qrp-l@Lehigh.EDU
Subject: [112749] Warbler-80 receive modification..help!
Message-ID: <F1630PVZyQ9wvTFUgqs000090fd@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

Gang,

Thanks to all who replied to my warbler woes. I am indeed making progress and by reorienting the warbler board I have reduced the interference considerably. I also may have been overdriving the sound card (thanks Mike).

I suspect my warbler is a bit deaf. I remember a posting about tacking a capacitor across an emitter resistor to improve the rf gain. However the exact parts values are what I need.

Thanks!

D. Kevin Philbin KD6TK

Get your FREE download of MSN Explorer at <http://explorer.msn.com/intl.asp>

Date: Sat, 24 Nov 2001 22:41:55 -0500
From: "Mike Yetsko" <myetsko@insydesw.com>
To: <jnewell@mediaone.net>,
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [112750] Re: [Elmer 101] -- dumb soldering questions
Message-ID: <003501c17563\$24237480\$0600a8c0@charter.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I read that NASA was anal about trying to keep foreign objects isolated. With that in mind, I wouldn't be surprised that they would desire to keep any 'clippings' away from where assembly might be completed.

I've read that when the early Mercury and Gemini capsules were launched, there would be a plethora of foreign objects that would suddenly be found floating around the capsules. Including, but not limited to, screws, nuts, wire clippings, and expected items. But other items like cigarette butts, coins, and even a beer cap. But I don't know how true those stories were.

Mike

----- Original Message -----

From: John O. Newell <jnewell@mediaone.net>

> > The technique of clipping before soldering, I think, comes from NASA
>
> Out of pure curiosity, why would NASA care? What was
> different about space applications that this "solved"? Was
> this a 60s thing (I remember them days, too! <g>), or does
> NASA still care?

>
> 72/73 es tnx
> John Newell
> KB1FPM
>

Date: Sat, 24 Nov 2001 21:02:20 -0700 (MST)
From: "Karl F. Larsen" <k5di@zianet.com>
To: <qrp-l@lehigh.edu>
Subject: [112751] CQ WWDX midterm
Message-ID: <Pine.LNX.4.33.0111242057480.1244-100000@cannac.fun>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=ISO-8859-1
Content-Transfer-Encoding: 8BIT

Still having fun with my QRP work on the contest. Did some good early afternoon contacts on 10 and when I got back from a party I found 10 dead but 15 was open east and west. So my total score is now over 3,500 and here is the log. I'm going to bed but IF I can get cards from the guys I worked I'm well on my way to DXCC.

Here is the log again:

QSO#	Date	Time	Band	Call	RST RX	ZONE RX	RST TX	Mode
18	11-24-2001	02:30	10	JH1AP	599	25	599	CW
19	11-24-2001	02:31	10	JH6XMO	599	25	599	CW
20	11-24-2001	02:33	10	JA5BJC	599	25	599	CW
21	11-24-2001	02:34	10	JI2KVV	599	25	599	CW
22	11-24-2001	02:35	10	JH6WHN	599	25	599	CW
23	11-24-2001	02:36	10	JA6GCE	599	25	599	CW
24	11-24-2001	02:37	10	JA6WIF	599	25	599	CW
25	11-24-2001	02:38	10	JH4UAP	599	25	599	CW
26	11-24-2001	02:41	10	JI70ED	599	25	599	CW
27	11-24-2001	02:42	10	JH1AZO	599	25	599	CW
28	11-24-2001	02:43	10	JF1KFV	599	25	599	CW
29	11-24-2001	02:45	10	JH FUW	599	25	599	CW
30	11-24-2001	02:47	10	JA3YBK	599	25	599	CW
31	11-24-2001	02:49	10	JN2AMD	599	25	599	CW
32	11-24-2001	13:14	40	VE3EJ	599	5	599	CW
33	11-24-2001	13:18	40	VE2FU	599	5	599	CW
34	11-24-2001	15:46	20	OK2FD	599	15	599	CW
35	11-24-2001	15:52	20	OL7W	599	15	599	CW

36	11-24-2001	15:54	20	OM5M	599 15	599 CW
37	11-24-2001	17:08	20	K IR	599 4	599 CW
38	11-24-2001	17:49	15	KH6R	599 31	599 CW
39	11-24-2001	17:58	15	VP5U	599 7	599 CW
40	11-24-2001	18:03	15	KH6TO	599 31	599 CW
41	11-24-2001	18:11	10	N4BP	599 5	599 CW
42	11-24-2001	18:29	10	PT1ST	599 11	599 CW
43	11-24-2001	18:42	10	V47KP	599 8	599 CW
44	11-24-2001	19:19	10	WP4NOW	599 8	599 CW
45	11-24-2001	21:28	10	C6AGY	599 8	599 CW
46	11-24-2001	21:33	10	CX5DW	599 13	599 CW
47	11-24-2001	21:39	10	PJ4M	599 9	599 CW
48	11-24-2001	21:52	10	ZY5A	599 11	599 CW
49	11-24-2001	21:54	10	LU3EW	599 13	599 CW
50	11-24-2001	21:56	10	L4 E	599 13	599 CW
51	11-24-2001	21:57	10	TG9AJR	599 7	599 CW
52	11-24-2001	23:04	10	EA8AH	599 33	599 CW
53	11-24-2001	23:06	10	LT1F	599 13	599 CW
54	11-24-2001	23:10	10	JR6EZ	599 25	599 CW
55	11-24-2001	23:10	10	JA7YAA	599 25	599 CW
56	11-25-2001	03:18	15	JK6IW	599 25	599 CW
57	11-25-2001	03:18	15	JS3IB	599 25	599 CW
58	11-25-2001	03:22	15	JA5BJC	599 25	599 CW
59	11-25-2001	03:23	15	JA4EZA	599 25	599 CW
60	11-25-2001	03:25	15	JK10LT	599 25	599 CW
61	11-25-2001	03:27	15	JH3AIU	599 25	599 CW
62	11-25-2001	03:30	15	JA3YBK	599 25	599 CW
63	11-25-2001	03:32	15	OK1VO	599 15	599 CW
64	11-25-2001	03:35	15	JR9NVB	599 25	599 CW
65	11-25-2001	03:39	15	AH2R	599 27	599 CW

--

Yours Truly,

- Karl F. Larsen, k5di@arrl.net (505) 524-3303 -
<http://www.qsl.net/k5di/>

 Date: Sat, 24 Nov 2001 23:12:53 -0500
 From: "AI2Q Alex" <ai2q@adelphia.net>
 To: <rod@n0rc.com>,
 "'Low Power Amateur Radio Discussion'" <qrp-l@Lehigh.EDU>
 Subject: [112752] RE: Adel nibbling tool, source found
 Message-ID: <000001c17567\$75940240\$6401a8c0@alex>
 MIME-Version: 1.0
 Content-Type: text/plain;

charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

It's great to see this FB tool still available. I've used mine for so-o-o-o many projects over the past 40 years! Every QRPer/homebrewer should have one.

Vy 73, AI2Q, Alex in Kennebunk, Maine QRP-L 687 .-.-.

-----Original Message-----

From: owner-qrp-l@Lehigh.EDU [mailto:owner-qrp-l@Lehigh.EDU] On Behalf Of Rod N0RC
Sent: Saturday, November 24, 2001 5:46 PM
To: Low Power Amateur Radio Discussion
Subject: Adel nibbling tool, source found

<http://www.browntool.com>

\$20

Happy Holidays
73, Rod N0RC
Ft Collins, CO

Date: Sat, 24 Nov 2001 23:15:44 -0500 (EST)
From: George Gingell <k3tks@u1.abs.net>
To: QRP List <qrp-l@Lehigh.EDU>
Cc: "Dave (K1SWL = Small Wonder Labs) Benson" <nn1g@earthlink.net>
Subject: [112753] [Elmer 101] Re: Soldering Technique
Message-ID: <20011124213946.C45194-100000@u1.abs.net>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

First, I would like to remind all who are using the Official SWL Kit and PCB for this Class. The Final Authority on whether or not to clean the boards and methods to use resides with "Dave Benson", NN1G. If you follow anyone else's instructions, Dave will not be obligated to honor any warranty on the product!

IMHO, That makes Dave the final Authority on that particular matter.

Having said that, There have been some good methods suggested by others that Might well apply to other PCB's especially those not Professionally

Produced in recent times.

Home made boards, or Old Stock Boards, may have Oxidation or even protective coatings or just plain corrosion. These are of course another category.

I prefer to use Scotchbrite (TM) 3M Pads or a Couple of Plain Red Gum Erasers. These work nicely on pads or component leads.

One Method is to secure two of the Erasers to a block of wood or the workbench itself use a Drywall tyoe screw and a couple of small washers. The idea is to be able to easily replace or adjust the erasers. Just place the resistor lead between the eraser sandwich and apply a little pressure with one finger while rotating and removing the component form the eraser cleaning assembly.

A couple of cautions here, Some Leads such as diodes and some capacitors will not withstand much stress. These should be held with flat pliers such as duckbills to prevent stress to the component connection.

Any Semiconductors, of course fall into this special category also.

Anything that is Static Sensitive needs even further precaution during handling. Anyone working on Static Sensitive Devices should have a Proper Wrist Strap (With Several Megohms in series to Ground).

With NEW Components as those Supplied with Dave's Kits, you are not likely to have much need for lead Cleaning. Still it is good to know how to deal with the problems of lead corrosion. There are lots of New (OLD STOCK) components on the flea market scene. I also am sure that I have lots of old stock components in the basement that will need cleaning before use. :^} Some that were New Stock Kits several years ago. :^}

I guess the real answer is to use the least abrasive necessary to do the job. Sandpaper or emory paper only in the most stubborn cases. (RARELY!)

The only thing that I ever used Sandpaper or emory paper on was The Enamel Coating on Magnet Wire leads for Coils.

Also anything used to Clean Corrosion is likely to leave a residue. Someone mentioned cleaning with fine steel wool, Which before the invention of ScotchBrite pads (tm) was one method of choice for cleaning homemade boards. Bear in mind that most Steel wool pads contain petrolium products coating the steel wool as part of the manufacturing process.

Dish Washing liquid followed by plain water and blow dry. Do Not Use Hair Dryer on boards with Components on already. The Dry Air Static could kill a perfectly good project. Works fine for Bare Boards.

A lot has been mentioned about component leads and whether to solder first or cut first. I personally have always put the leads thru the holes and bent at 45 degree angle and soldered. Clipping after soldering. The Sissors type of Cutters are preferred, But not really necessary. I have used my old baby telephone dikes for years with perfect results. Some one mentioned the leads flying with this method. Yes, they can and is exactly why you should wear Safety Glasses while doing this type of work. I generally hold the lead to be clipped with my left hand while clipping with my right. I then put the "Scrap Lead" in the Scrap Lead Box or Tin.

They come in handy for jumpers, Hole Cleaning Tools, and A number of other uses around the workbench.

I notice that Many also like to have their components up tight against the pcb. I tend to have a different approach. I like mine away from the board for several reasons. The 1/32" inch of space may allow you to attach a test lead probe and it also allows just enough lead length to fit back in if the lead is lifted for testing or repairs. In some cases it is best to clip a lead at the component and use its lead for the connection to the replacement part.

There are a few Rare cases where the leads must be cut to fit before installing the component as mentioned by someone else here for the K2 kit as an example. There are also Component lead bending jigs but these are not needed for most of our applications.

I guess I forgot to mention how I space my parts from the board. I use a number of items over the years. Flat Tooth picks, Book Matches with the heads snipped off or Strips of Old Business Cards placed under the parts until after soldering. They can also be doubled if you like more space.

One other little item not mentioned before is a a hand full of small alligator clips to attach to component leads as heat sinks or Ground Straps while handling and soldering components. The small glass diodes can be damaged quite easily as mentioned by others. This is also a good reason to hold them with longnose pliers before bending the leads to fit the board hole spacings.

I hope that some these comments will be found useful. You are free to use them or not, I don't profess to be an expert by any means. I do however have great respect for the guys Like Dave and Steve and all of the experts who design these wonderful QRP kits and projects that we have available to us these days.

If you want a lesson in Value, Take Any QRP Kits Materials list and then price it out using the big name catalogs and you will have new respect for

what we have available today.

Thanks to all who provide with this endless source of fun...

Sir George, The First :^}

72 ES

QRP DX TU (C) 1986, G. "Danny" Gingell, K3TKS@ abs.net
Former QRP A.R.C.I. Net Manager and Board of Director Member.
Gingell & Company, Ltd. Small Business Telephone Systems
Commercial Locksmith Services (301) 572-6789 Office & Fax
George D. Gingell, Jr. 3052 Fairland Road, Silver Spring, MD 20904-7117
Maryland Milliwatt Club QRP Reference Library, (301) 572-6789 IQRR #1
Maryland Milliwatt Club Founder and Trustee of Club Station - WQ3RP -
Grid Square FM19mb 76.94 W - 39.06 N Silver Spring, MD 20904 QRPea.A.

Collector of Quartz Crystals and Telegraph Keys.

"72" = "Wishing You Good QRP" (C) 1991 Oleg Borodin, RV3GM

Date: Sat, 24 Nov 2001 23:25:50 -0500
From: "Jack Ricci" <ricci@mnsi.net>
To: <k5di@zianet.com>,
"Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [112754] Re: Ear Wax Removal
Message-ID: <008201c17569\$43d78c20\$088008d8@LocalHost>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Karl, if you do that procedure in the bath tub, your wife or daughters
will be able to recycle the wax before using their bikinis....don't waste
it... :-)

----- Original Message -----

From: "Karl F. Larsen" <k5di@zianet.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Saturday, November 24, 2001 5:59 PM
Subject: OT: Ear Wax Removal

>

> Once a month IF you have excess ear wax generated you should have

> a large brown plastic bottle of Hydrogen Peroxide, very cheap at Wal Mart.
> >From an old nose drop bottle save the dropper and use that to put lots of
> the liquid in your ear. Then hold it in place with some tissue paper and
> do the same with the other ear. Wait 5 minutes and then let the liquid out
> of both ears into the sink. Then from the sink where you have warm water
> fill the ear irrigator ball with a small output hole and stray water not
> directly into the ear but off to the side a little. The wax will float out
> into the sink.
>
> There are about 20 other ways to this same thing. This is what my
> Doctor recommends.
>
> --
> Yours Truly,
>
> - Karl F. Larsen, k5di@arrl.net (505) 524-3303 -
> <http://www.qsl.net/k5di/>
>

Date: Sat, 24 Nov 2001 23:12:55 -0500
From: David Hinerman <wd8civ@worldnet.att.net>
To: qrp-l@lehigh.edu
Subject: [112755] Re: Soldering and board prep
Message-ID: <3.0.6.32.20011124231255.0079b7d0@postoffice.worldnet.att.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 07:33 PM 11/24/01 -0500, you wrote:

>Al,
>
>Although I've only built a few kits and boards, I have ALWAYS kept a nice
>stick style eraser handy for buffing off pads, connectors, edge cards, etc
>etc. A couple of light "scrubs" and everything seems to brighten up and
>accepts solder much better.
>
>I like the little pink type better than the more abrasive white ink erasers.
>
>Leaves less residue too.

Be aware that some pink erasers do contain oils or other chemicals that may remain on surfaces. My favorite use for a pink eraser is the kind that slips onto the end of a pencil - use it to find microphonic tubes. (Ping!)

Dave

Dave Hinerman
WD8CIV@worldnet.att.net

Date: Sat, 24 Nov 2001 23:29:58 -0500
From: Alex <kr1st@amsat.org>
To: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [112756] Magnetic loop pictures
Message-ID: <3C0073C6.AA57DEED@amsat.org>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi there,

For those interested, I put some pictures and a short description of my homebrew magnetic loop on my web page at:

<http://www.qsl.net/kr1st/magloop.htm>

73s,
--Alex (KR1ST)

Date: Sat, 24 Nov 2001 21:49:12 -0700
From: "Rod N0RC" <rod@n0rc.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [112757] Is it just me...
Message-ID: <000501c1756c\$87b505f0\$6401a8c0@c919125b>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Or do others find reading about various medical procedures such as ear wax removal, annoying?

I could be wrong there may indeed be some connection between QRP radio, ear wax removal and God knows what else. If I'm wrong please enlighten me, I'll gladly shut up and revert to DEL key mode.

I do have a radio/qrp question if that is allowed: I just completed a

BLT tuner kit, works FB! I'd like to know more about how the absorptive bridge works. Can somebody point me to a Theory of Operation article? Thank you in advance. I hope my non-OT question is not to much a bother.

Happy Holidays
73, Rod NØRC
Ft Collins, CO

Date: Sat, 24 Nov 2001 23:57:32 EST
From: K5BDZ@aol.com
To: GQRP@yahooogroups.com, qrp-1@lehigh.edu, hqrp@stevens.com
Subject: [112758] Info on Lowe HF 150 Rx
Message-ID: <126.7b122d7.2931d43c@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Need some info on Lowe HF 150 Rx. Is it worthy to pursue finding one?

It's always looked interesting and I need something small.

Also would be interested if anyone has one for sale (U.S. or U.K.)
Thanks
Bill K5BDZ

Date: Sat, 24 Nov 2001 21:25:26 -0800 (PST)
From: Bill ROWLETT <kc4atu@yahoo.com>
To: kandrparker@sympatico.ca,
Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [112759] Re: [Elmer 101] PCB prep
Message-ID: <20011125052526.55357.qmail@web14201.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

If anyone does anything to a board from Dave Benson you deserve what you get. They do not need any thing done to them. If they did, it would have been explained in the instructions which came with the kit.

All post about board prep should not be under the heading of Elmer 101. Use board prep in the subject

line. This will keep the two separated, and maybe not confuse someone into thinking that the board in the kit needs prep. It does not.

Elmer 101 was to be used for the class info and questions only.

All the so called experts here need to listen to the maker of the kits when he tells you to put a lid on it.

Back to my hole.

73, Bill

Do You Yahoo!?

Yahoo! GeoCities - quick and easy web site hosting, just \$8.95/month.
<http://geocities.yahoo.com/ps/info1>

Date: Sun, 25 Nov 2001 00:34:53 EST
From: WE7X@aol.com
To: QRP-L@lehigh.edu
Subject: [112760] PI output network theory question
Message-ID: <14a.4923e2f.2931dcfd@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Since I got no response to my general question earlier, I'll ask it another way. What might be gained by adding inductance in series with (after) a factory designed PI output network?

In my HW-8, there is a factory T/R relay after the PI network output filtering, and then normally the RF signal goes directly to an output indicator circuit and to the antenna connector. Mine has been modified, and documented in the schematic, by adding a switch to incrementally add inductance (.15uH to 6.8uH) in series with the output lead, before the antenna connector. It is inserted before the T/R relay on receive, and of course after it in transmit, so it is in line all the time.

The factory filtering between halves of the band switch, is a series cap followed by a series inductor, then a cap to ground followed by another series inductor. After this the mod adds another series inductance, which is connected directly to the RF output jack.

I am wondering what any body would be trying to accomplish by this modification.

Any Ideas? I've looked through several manuals, and am now more confused

than when I started. Lets have some of that technical discussion some are clamoring for. :>)

WE7X

Issaquah, WA

Date: Sun, 25 Nov 2001 00:55:04 -0500
From: "Dave Benham" <dodgeboy@mindspring.com>
To: <qrp-l@lehigh.edu>
Subject: [112761] DB-9 connector question
Message-ID: <023a01c17575\$bdbf94e0\$40d279a5@hqa.chrysler.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

What determines the male-ness and female-ness of a DB-9 connector? Is it the 9 pins (male) and 9 receptors (female), or the housing around them (which would be the opposite of the first option)?

Thanks.

Dave K8TRF

Date: Sun, 25 Nov 2001 00:59:02 -0500
From: "Mark J. Dulcey" <mark@buttery.org>
To: dodgeboy@mindspring.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [112762] Re: DB-9 connector question
Message-ID: <3C0088A6.2050008@buttery.org>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit

Dave Benham wrote:

> What determines the male-ness and female-ness of a DB-9 connector? Is it
> the 9 pins (male) and 9 receptors (female), or the housing around them
> (which would be the opposite of the first option)?

A male DE-9 (the actual correct term) is the one with pins showing; a female connector is the other one. The male-ness is determined by the

pins, not the housing.

Date: Sun, 25 Nov 2001 06:18:59
From: "Mike WA8BXN" <hubby2k@hotmail.com>
To: WE7X@aol.com, qrp-1@Lehigh.EDU
Subject: [112763] Re: PI output network theory question
Message-ID: <F73uciIzWxVkVuCoo1l0001e699@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

My guess is that it was intended to serve as very simple antenna matching method --- a somewhat variable loading coil for random lengths of wire as an antenna. Throw a variable capacitor across the antenna to ground and you have a basic L network.

73/72 - Mike WA8BXN

Get your FREE download of MSN Explorer at <http://explorer.msn.com/intl.asp>

Date: Sat, 24 Nov 2001 22:26:55 -0800
From: "Alan Kaul" <alan.kaul@worldnet.att.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [112764] CQWW DX
Message-ID: <002601c1757a\$33837e40\$4020cd18@charterpipeline.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

The bands came back Saturday ... I worked a few rare ones---4W, BA, BV, XT2, 9M6, YB, but unfortunately wasted 20-minutes trying to work HS0... and failed.

I've only heard one KL (Alaska) station -- worked him (on 20M). 40M ought to be better tonight but 80 might be very noisy again.

The contest is more than half-over---but there are still plenty of Q's out there, and countries, too. Come on in--give it a shot!

Alan Kaul, W6RCL, LaCanada, CA
w6rcl@amsat.org
<http://home.att.net/~alan.kaul/index.html>

Date: Sun, 25 Nov 2001 02:01:14 -0500
From: Bruce Muscolino <w6toy@erols.com>
To: k5di@zianet.com
Cc: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>
Subject: [112765] Re: OT: Ear Wax Removal
Message-ID: <3C00973A.82845F20@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Was this really necessary? Isn't it the reason that most of us have doctors?

Date: Sun, 25 Nov 2001 07:04:52
From: "Mike WA8BXN" <hubby2k@hotmail.com>
To: rod@n0rc.com, qrp-1@Lehigh.EDU
Subject: [112766] Re: Is it just me...
Message-ID: <F220gxCn1jix0lgKwtA00010681@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

Hi Rod and everyone ---

I have to agree that we should try to stay on topic, there are so many other forums for other discussions! As far as the absorptive bridge goes, here is the executive summary: Its absorptive because it disappates power in the resistors. Otherwise its a standard bridge circuit which when out of balance produces an indication on a meter or LED. Think of the DC analogy ... tow pairs of series resistors across a voltage source. In each series pair of resistors the resistances are the same so the voltage at the junction of the resistors is half the supply voltage. The voltage between the tow resistor pair junctions is zero. If you change one of the resistors, the balance is upset and you would see some difference in voltage between the "center taps". In the absorptive bridge, one of the resistors is replaced by the antenna, and the resistors are the resistance we are looking for (50 ohms or so). If the antenna is 50 ohms, there is still balance and no voltage difference between the center taps of the bridge. When the antenna is high or low of 50 ohms, there is a voltage that moves the meter or lights the light. For typical use of tuner adjustment, all we are interested in is minimum unbalance and not

actual swr, which simplifies things a lot. The other note about an absorptive bridge is that the resistors tend to protect the transmitter since it sees a better swr than is the case in severe mismatches and high power could burn out the resistors!

I hope you follow this as I typed it kinda late tonight.
73/72 - Mike WA8BXN

Get your FREE download of MSN Explorer at <http://explorer.msn.com/intl.asp>

Date: Sat, 24 Nov 2001 23:07:34 -0800
From: "DTX" <dtx@wood.tzo.com>
To: <qrp-1@lehigh.edu>
Subject: [112767] Re: PI output network theory question
Message-ID: <005801c1757f\$dbf760\$0c00a8c0@home>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

----- Original Message -----
From: <WE7X@aol.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Sent: Saturday, November 24, 2001 9:34 PM
Subject: PI output network theory question

> Since I got no response to my general question earlier, I'll ask it
another
> way. What might be gained by adding inductance in series with (after) a
> factory designed PI output network?
[snipped]

Short antennas are always (?) capacitive and by putting inductance in series you will atleast lower that value to a range the "regular" tuner can match. How do we get into that situation? Well, one way is to have a 40M dipole and deciding after awhile you want to operate on 160M. hmmm, my little mfj16010 at mid-C setting is peaking with the inductor at max...but the swr is around 3 to 1. If I just had another click or two of inductance, I could get 1 to 1. Of course, with my 40M dipole up 20 ft I would most likely only

be helping the finals live longer while I vainly try to be heard more than 500ft away<G>. But atleast when I go back to 40M and 30M I should have a working transmitter. It is not good to bet the farm on SWR foldback.

And having the inductance also in series to the receiver section has the same effect.....it cancels the capacitive reactance and allows for the rf tuning to peak for maximum signal. Assuming you have one of those knobs to tweak.

Gary WA6DTX

Date: Sun, 25 Nov 2001 07:08:02
From: "Mike WA8BXN" <hubby2k@hotmail.com>
To: dodgeboy@mindspring.com, qrp-1@Lehigh.EDU
Subject: [112768] Re: DB-9 connector question
Message-ID: <F243BqE5q85PNq6u4ya0001e1ff@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

I do believe its the actual conductor configuration and not the shells.

>What determines the male-ness and female-ness of a DB-9 connector? Is it
>the 9 pins (male) and 9 receptors (female), or the housing around them
>(which would be the opposite of the first option)?

Get your FREE download of MSN Explorer at <http://explorer.msn.com/intl.asp>

Date: Sun, 25 Nov 2001 02:07:22 -0500
From: Bruce Muscolino <w6toy@erols.com>
To: w5yr@att.net, qrp-1@lehigh.edu
Subject: [112769] Re: [Elmer 101] RF Probe - 1N914 sub?
Message-ID: <3C0098AA.93F07D70@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Wrong. The 1N914 was the predecessor of the 1N4148. Both are silicon.

The 1N914 was superseded by the 1N4148 because of manufacture problems.
Happened back about 1980.

73

Date: Sun, 25 Nov 2001 02:16:37 -0500
From: Bruce Muscolino <w6toy@erols.com>
To: lenrev@ameritech.net
Cc: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>
Subject: [112770] Re: www.eQSL.cc
Message-ID: <3C009AD5.D43DE68@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Len,

>

> As a matter of fact, QRP-ARCI offers an award for working 100 of the ARRL
> recognized entities and accepts eQSL's if verified by two hams

>

Gee, when I got mine they didn't require any cards. Better check that!

Many organizations accept third party card checking.

73

Date: Sun, 25 Nov 2001 02:25:06 -0500
From: Bruce Muscolino <w6toy@erols.com>
To: casey.jay@gte.net
Cc: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>
Subject: [112771] Re: [Elmer 101] PCB prep
Message-ID: <3C009CD2.5E898C5A@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

If upi can see bare copper traces between the pads where the components
are to be soldered, chances are that you have a NON solder masked
board. Most solder masking these days is colored so it looks different
than the bare board.

The purpose of solder masking is to help keep you from soldering traces
together by solder splashes or errors. It also allows the designer to
use smaller and more closely spaced traces. Solder will not adhere to

it so it is safer You can burn through it though by applying excessive heat.

Compare a current board by Dave Benson and a current board by FAR Circuits. The FAR Circuits board has no solder masking.

73

Date: Sun, 25 Nov 2001 02:33:35 -0500
From: Bruce Muscolino <w6toy@erols.com>
To: Dave Benson <nn1g@earthlink.net>
Cc: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>
Subject: [112772] Re: [Elmer 101] PCB prep
Message-ID: <3C009ECF.BB362BAA@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Dave,

All good points. I did not make the original post about using sandpaper. I realize that Elmer 191 is bringing in a lot of inexperienced builders, but I think if you don't educate them completely you are doing them and the hobby a disservice. What do they do when they buy a board from FAR Circuits, or, etch their own board!

The original question asked how to prepare circuit boards. To give him a less than complete answer is not right. There are hundreds of builders on this list, and from the messages we have seen, everybody does it a little differently. I think to say, even indirectly, that yours are the only boards they will ever see is not in a bit presumptuous!

73

Date: Sun, 25 Nov 2001 02:41:24 -0500
From: Bruce Muscolino <w6toy@erols.com>
To: jnewell@mediaone.net
Cc: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>
Subject: [112773] Re: [Elmer 101] -- dumb soldering questions
Message-ID: <3C00A0A4.DD1B1B32@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Yes, it started in the 1960's. NASA required assemblers to be certified before they touched any any NASA equipment. The certification was to ensure high reliability in space missions. We used it through the end of hand soldering in the aerospace industry where high reliability was the goal.

IF you could not show NASA Solder Certification for ALL of your assemblers working on their projects you didn't get the contract. We used to require all our assemblers to pass NASA certification just because it ensures a common starting point for all of them!

73

Date: Sun, 25 Nov 2001 02:50:10 -0500
From: Bruce Muscolino <w6toy@erols.com>
To: myetsko@insydesw.com
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [112774] Re: [Elmer 101] -- dumb soldering questions
Message-ID: <3C00A2B2.8B38BB6D@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

NASA was "anal" about more than clippings. The program was one that covered the whole board assembly process, from bare board through component insertion to solder. I guess something about per diem for the first service call was what did it!

Students were tested in writing and also by practical soldering . Inspectors didn't have much sympathy. You either knew your stuff or you didn't get to work on the program. Many of the solder companies prepared written training aids.

83

Date: Sun, 25 Nov 2001 02:59:21 -0500
From: Bruce Muscolino <w6toy@erols.com>
To: kc4atu@yahoo.com, qrp-l@lehigh.edu
Subject: [112775] Re: [Elmer 101] PCB prep
Message-ID: <3C00A4D9.76502EF6@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Oh excuse me sir. When I answer a posting I usually don't change the title because then it has no meaning.

If you are using a kit manufactured expressly for this class you might have a point. But what about people who are using older kits of the same radio that have been stored under different conditions? Their boards might t require some help.

And the purpose of the class is to teach you something about building. If you never build anything but Dave Benson's kits. OK, nit you are cutting out more than half the fun!

73

Date: Sun, 25 Nov 2001 05:32:34 -0700 (MST)
From: "Karl F. Larsen" <k5di@zianet.com>
To: Jack Ricci <ricci@mnsi.net>
Cc: <k5di@zianet.com>,
Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [112776] Re: Ear Wax Removal
Message-ID: <Pine.LNX.4.33.0111250530220.1238-100000@cannac.fun>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

We are rich Americans. Not only do we have INDOOR bathrooms, but I have 2 bathrooms his and hers. She rarely comes in mine. And the maid will harvest the wax...:-)

On Sat, 24 Nov 2001, Jack Ricci wrote:

> Karl, if you do that procedure in the bath tub, your wife or daughters
> will be able to recycle the wax before using their bikinis....don't waste
> it... :-)
> ----- Original Message -----
> From: "Karl F. Larsen" <k5di@zianet.com>
> To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
> Sent: Saturday, November 24, 2001 5:59 PM
> Subject: OT: Ear Wax Removal
>
>
> >
> > Once a month IF you have excess ear wax generated you should have
> > a large brown plastic bottle of Hyrogen Peroxide, very cheap at Wal Mart.
> > >From an old nose drop bottle save the dropper and use that to put lots of
> > the liquid in your ear. Then hold it in place with some tissue paper and

> > do the same with the other ear. Wait 5 minutes and then let the liquid out
> > of both ears into the sink. Then from the sink where you have warm water
> > fill the ear irrigator ball with a small output hole and stray water not
> > directly into the ear but off to the side a little. The wax will float out
> > into the sink.

> >

> > There are about 20 other ways to this same thing. This is what my
> > Doctor recommends.

> >

> > --

> > Yours Truly,

> >

> > - Karl F. Larsen, k5di@arrl.net (505) 524-3303 -
> > <http://www.qsl.net/k5di/>

> >

>

>

>

--

Yours Truly,

- Karl F. Larsen, k5di@arrl.net (505) 524-3303 -
<http://www.qsl.net/k5di/>

Date: Sun, 25 Nov 2001 05:43:20 -0700 (MST)
From: "Karl F. Larsen" <k5di@zianet.com>
To: Rod N0RC <rod@n0rc.com>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [112777] Re: Is it just me...
Message-ID: <Pine.LNX.4.33.0111250539590.1238-100000@cannac.fun>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I'm sorry guys. I should have explained it's connection to QRP Radio.
Serious ear wax buildup can ruin your ability to do QRP-L Fox Hunts. Now
is it better.

On Sat, 24 Nov 2001, Rod N0RC wrote:

> Or do others find reading about various medical procedures such as ear
> wax removal, annoying?

>

> I could be wrong there may indeed be some connection between QRP

> radio, ear wave removal and God knows what else. If I'm wrong please
> enlighten me, I'll gladly shut up and revert to DEL key mode.
>
> I do have a radio/qrp question if that is allowed: I just completed a
> BLT tuner kit, works FB! I'd like to know more about how the
> absorptive bridge works. Can somebody point me to a Theory of
> Operation article? Thank you in advance. I hope my non-OT question is
> not to much a bother.
>
> ***Happy Holidays***
> 73, Rod NØRC
> Ft Collins, CO
>
>

--
Yours Truly,

- Karl F. Larsen, k5di@arrl.net (505) 524-3303 -
<http://www.qsl.net/k5di/>

Date: Sun, 25 Nov 2001 12:40:22 +0000
From: euramcom pages <mel@euramcom.freemove.co.uk>
To: <k5bdz@aol.com>
Cc: <qrp-1@lehigh.edu>
Subject: [112778] Re: Info on Lowe HF 150 Rx
Message-ID: <E167ydD-0003Xq-00.2001-11-25-12-43-35@mail3.svr.pol.co.uk>
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable

On Sat, 24 Nov 2001 23:57:32 EST, K5BDZ@aol.com wrote:

>Need some info on Lowe HF 150 Rx. Is it worthy to pursue=
finding
>one?
>
>It's always looked interesting and I need something small.
>
>Also would be interested if anyone has one for sale (U.S. or=
U.K.)
>Thanks
>Bill K5BDZ
>

Hi Bill,

Never owned one but they were/are very popular as a good enough= SWL tool here in the UK.

Lowe Electronics has now been taken over by Waters and Stanton I= believe, so a google search should get you to their website.

Hope this helps

Regards

me1

Date: Sun, 25 Nov 2001 05:58:20 -0700 (MST)
From: "Karl F. Larsen" <k5di@zianet.com>
To: <WE7X@aol.com>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [112779] Re: PI output network theory question
Message-ID: <Pine.LNX.4.33.0111250551080.1238-100000@cannac.fun>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hello no name given, what you discribe is inductance someone added to make their radio work with their antenna. This is found by experiments and on the air testing.

When you change to a differnet antenna, the inductance added might keep it from working.

For an HW-8 I would remove ALL special modes in the antenna path and make it factory. Then either make your antenna feedline have a good impedance at the transmitter or get an antenna tuner.

On Sun, 25 Nov 2001 WE7X@aol.com wrote:

> Since I got no response to my general question earlier, I'll ask it another
> way. What might be gained by adding inductance in series with (after) a
> factory designed PI output network?
> In my HW-8, there is a factory T/R relay after the PI network output
> filtering, and then normally the RF signal goes directly to an output
> indicator circuit and to the antenna connector. Mine has been modified, and

> documented in the schematic, by adding a switch to incrementally add
> inductance (.15uH to 6.8uH) in series with the output lead, before the
> antenna connector. It is inserted before the T/R relay on receive, and of
> course after it in transmit, so it is in line all the time.
> The factory filtering between halves of the band switch, is a series cap
> followed by a series inductor, then a cap to ground followed by another
> series inductor. After this the mod adds another series inductance, which is
> connected directly to the RF output jack.
> I am wondering what any body would be trying to accomplish by this
> modification.
> Any Ideas? I've looked through several manuals, and am now more confused
> than when I started. Lets have some of that technical discussion some are
> clamoring for. :>)
> WE7X
> Issaquah, WA
>
>

--

Yours Truly,

- Karl F. Larsen, k5di@arrl.net (505) 524-3303 -
http://www.qsl.net/k5di/

Date: Sun, 25 Nov 2001 08:03:49 -0500
From: "Pastor-KC1DI" <elbc@pivot.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [112780] RE FT : RH 40
Message-ID: <000b01c175b1\$a0757d00\$ea96fea9@pivot.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Thanks to all who responed the RH 40 has been spoken for .
73 Dave

Outgoing mail is certified Virus Free.
Checked by AVG anti-virus system (<http://www.grisoft.com>).
Version: 6.0.302 / Virus Database: 163 - Release Date: 11/22/01

Date: Sun, 25 Nov 2001 08:29:45 -0500
From: "Michael C. Boatright" <ko4wx@mindspring.com>
To: qrp-1@lehigh.edu
Subject: [112781] Re: Warbler-80 receive modification..help!
Message-ID: <5.0.2.1.2.20011125082411.022750e0@pop.mindspring.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Kevin,

A .01uF paralleled with R17 will do the trick. Puts the emitter at RF ground, which essentially gives DC bias. Many Warblers, especially the early runs, had really HOT transistors (e.g. high beta) and amplified with just the trickle through R16.

Note a similar mod can be made to Q3 in the transmit chain if you are not getting full output. I was only getting 1 to 1.5 Watts out. Traced the voltages through the chain and found that I wasn't getting the expected gain out of Q3/Q4 driver stage. Paralleled a .01 uF across R8 and now I'm getting full 3 Watts out.

72 de Mike, K04WX
Michael C. Boatright

Date: Sun, 25 Nov 2001 13:52:30 +0000
From: "Leon Heller" <leon_heller@hotmail.com>
To: k5di@zianet.com, qrp-1@Lehigh.EDU
Subject: [112782] Re: Ear Wax Removal
Message-ID: <F100sVt2SQZ2SG8EWgu0000aa78@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

>From: "Karl F. Larsen" <k5di@zianet.com>
>Reply-To: k5di@zianet.com
>To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
>Subject: Re: Ear Wax Removal
>Date: Sun, 25 Nov 2001 05:32:34 -0700 (MST)
>
>
>We are rich Americans. Not only do we have INDOOR bathrooms, but I have 2

>bathrooms his and hers. She rarely comes in mine. And the maid will
>harvest the wax...:-)

George, G3RJV, of Sprat fame, recommends beeswax for securing coil turns.
Perhaps the earwax could be recycled for amateur radio use. 8-)

73, Leon

--

Leon Heller, G1HSM Tel: +44 1327 359058 Email:leon_heller@hotmail.com

My web page: http://www.geocities.com/leon_heller

My low-cost Altera Flex design kit: <http://www.leonheller.com>

Get your FREE download of MSN Explorer at <http://explorer.msn.com/intl.asp>

Date: Sun, 25 Nov 2001 13:56:48 +0000

From: "Leon Heller" <leon_heller@hotmail.com>

To: dodgeboy@mindspring.com, qrp-1@Lehigh.EDU

Subject: [112783] Re: DB-9 connector question

Message-ID: <F26Sy9vGz1JeKi0K41u0000c084@hotmail.com>

Mime-Version: 1.0

Content-Type: text/plain; format=flowed

>From: "Dave Benham" <dodgeboy@mindspring.com>

>Reply-To: dodgeboy@mindspring.com

>To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

>Subject: DB-9 connector question

>Date: Sun, 25 Nov 2001 00:55:04 -0500

>

>What determines the male-ness and female-ness of a DB-9 connector? Is it

>the 9 pins (male) and 9 receptors (female), or the housing around them

>(which would be the opposite of the first option)?

It refers to the pins.

73, Leon

--

Leon Heller, G1HSM Tel: +44 1327 359058 Email:leon_heller@hotmail.com
My web page: http://www.geocities.com/leon_heller
My low-cost Altera Flex design kit: <http://www.leonheller.com>

Get your FREE download of MSN Explorer at <http://explorer.msn.com/intl.asp>

Date: Sun, 25 Nov 2001 09:03:23 -0500
From: W2AGN <w2agn@pobox.com>
To: w6toy@erols.com, qrp-1@lehigh.edu
Subject: [112784] Re: OT: Ear Wax Removal
Message-ID: <01112509032303.27796@njbirdman>
Content-Type: text/plain;
 charset="iso-8859-1"
MIME-Version: 1.0
Content-Transfer-Encoding: 8bit

On Sunday 25 November 2001 02:01, you wrote:
> Was this really necessary? Isn't it the reason that most of us have
> doctors?

--

Now, Bruce, the list rallied to Karl's support when mean old me was picking on him, so now the list gets to enjoy ear wax removal. Stay tuned tomorrow for "Nose-picking for Fun and Profit."

 John L Sielke W2AGN
 w2agn@pobox.com
 <http://www.qsl.net/w2agn>

Date: Sun, 25 Nov 2001 14:04:10 +0000
From: "Leon Heller" <leon_heller@hotmail.com>
To: K5BDZ@aol.com, qrp-1@Lehigh.EDU
Subject: [112785] Re: Info on Lowe HF 150 Rx
Message-ID: <F13QMyjj5jjsJZanA6S0002556f@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

>From: K5BDZ@aol.com
>Reply-To: K5BDZ@aol.com
>To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
>Subject: Info on Lowe HF 150 Rx
>Date: Sat, 24 Nov 2001 23:57:32 EST
>
>Need some info on Lowe HF 150 Rx. Is it worthy to pursue finding one?
>
>It's always looked interesting and I need something small.
>
>Also would be interested if anyone has one for sale (U.S. or U.K.)

It's always received quite good reviews. It's no longer made, but AKD makes a similar Rx (I think it's by the same designer, it looks very similar), the HF3S. Cost is 159.95 UK pounds - quite reasonable.

Website is <http://akdinfo.com>

73, Leon

--

Leon Heller, G1HSM Tel: +44 1327 359058 Email:leon_heller@hotmail.com
My web page: http://www.geocities.com/leon_heller
My low-cost Altera Flex design kit: <http://www.leonheller.com>

Get your FREE download of MSN Explorer at <http://explorer.msn.com/intl.asp>

Date: Sun, 25 Nov 2001 09:15:35 -0500
From: mikemo@attglobal.net
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [112786] Re: DB-9 connector question
Message-ID: <3C00FD07.A6AC886A@attglobal.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

> >What determines the male-ness and female-ness of a DB-9 connector? Is it
> >the 9 pins (male) and 9 receptors (female), or the housing around them
> >(which would be the opposite of the first option)?

I thought some might find this interesting.

Male and female serial connectors _usually_ correspond to whether they are a DCE or a DTE. DTE stands for Data Terminal Equipment and would refer to your computer or a dumb terminal (male connector). DCE stands for Data Communication Equipment and would refer to a modem or similar communication hardware (female connector).

They have different connectors, male and female, because they also have different signals on different pins. A modem is connected to a computer with a standard cable, so pin 1 goes to pin 1, pin 2 goes to pin 2, etc. Obviously, if you want two devices to talk, the wire on which one is transmitting needs to be the wire on which the other is receiving, and vice versa. The different types of connectors distinguish the different types of pinouts.

That said, there is quite a bit of "non-standard" serial connectors, hence the need for all sorts of adapters and converters.

Regards,
Mike M. KU4QO

Date: Sun, 25 Nov 2001 14:21:06 -0000
From: "Thom Durfee" <wi8w@arrl.net>
To: <qrp-l@lehigh.edu>
Subject: [112787] test message
Message-ID: <010d01c175bc\$6c307120\$6401a8c0@grapid1.mi.home.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Sorry gang, I have been having a lot of trouble posting to the list that last few weeks and I am trying to find out what the problem is, was or might have been.

thanks

73

Thom Durfee WI8W
Awards Manager QRP/ARCI

Date: Sun, 25 Nov 2001 07:42:33 -0700
From: "Rod N0RC" <rod@n0rc.com>

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [112788] proposal for dealing with OT
Message-ID: <008601c175bf\$6b5991c0\$6401a8c0@c919125b>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Let's start another list, we can do it for free using Yahoo Groups,
we'll call it QRP-L-OT.

Anything goes, topics allowed but are not limited to:

- o Ear Wax
- o computer viruses
- o toe-jam removal
- o non radio uses for Altoids Tins
- o Chile recipes
- o irrational rant on any topic you choose...

Give me the word and I set it up.

So if we do set up QRP-L-OT how long will it be before OT posts on
radio topics start appearing?

Happy Holidays
73, Rod N0RC
Ft Collins, CO

Date: Sun, 25 Nov 2001 08:43:38 -0600
From: "Craig W. Behrens" <craigwb@hiwaay.net>
To: "QRP-L QRP-L" <qrp-l@Lehigh.EDU>
Subject: [112789] Need Noise Generation Board to Use with Spectrogram
Message-ID: <000101c175bf\$964b38c0\$4c04b4d8@computer>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="us-ascii"
Content-Transfer-Encoding: 7bit

Could someone please let me know if/where/how I can get a Noise
Generator kit to use with Spectrogram. Seems like the AZ ScQRPions (or
some other club) offered one.

Thanks.

72/73 & DX,
Craig W. Behrens--NM4T
Madison, AL

Date: Sun, 25 Nov 2001 10:16:20 -0500
From: "Jim Kortge, K8IQY" <jokortge@prodigy.net>
To: sigcom@juno.com
Cc: qrp-1@lehigh.edu
Subject: [112790] Re: 13.5 MHz IF Anybody
Message-ID: <5.0.2.1.1.20011125100652.00a5ca60@pop.prodigy.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

At 05:57 PM 11/24/01 -0800, you wrote:

>Dr. MC (and group),

>

>Wow! \$0.013 a crystal. Now that's my kind of pricing :-).

Mine too.....

>

>

>How about a 17 meter rig? The L0 would come out in the 4.5 MHz range.

>

>Hmmm.....Some cheapie crystals, then throw in some parts scrounged from
>an old T.V. and/or VCR. Wonder what kinds of video amp. I.C.s can be
>lifted from those for use as a TX driver. Hmmm.....

>

>And a half-wave antenna for 17 is only 26 ft. long.

>

>This could get interesting.

Or a couple of other possibilities. Use the 13.5 MHz rock in a VXO
and double it up to 27 MHz. Mix that with a 24 MHz rock, to use
in a direct conversion 40 meter rig. Or, same VXO setup and use
it as the L0 for a 12 meter rig, with the IF at 2 MHz. Both
24 MHz and 2 MHz computer crystals are readily available.

And another non-ham one. FM modulate the 13.5 MHz oscillator
and multiply it by 8 up to 108 MHz for you own little low powered
FM station.

Maybe this could be the design contest for Dayton 2002. Design
a transmitter, receiver, whole rig, etc., which makes use of

13.5 MHz crystals.

Enough.....

72,

Jim, K8IQY

Date: Sun, 25 Nov 2001 09:27:55 -0600
From: "George, W5YR" <w5yr@att.net>
To: rod@n0rc.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [112791] Re: proposal for dealing with OT
Message-ID: <3C010DFB.E5D6CB47@att.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I don't know, Rod - sorta reminds one of why we drive on parkways and park on driveways! <:}

But, I like it!

72/73, George W5YR - the Yellow Rose of Texas QRP-L 1373 NETXQRP 6
Fairview, TX 30 mi NE of Dallas in Collin county EM13qe SOC 262
Amateur Radio W5YR, in the 56th year and it just keeps getting better!
Icom IC-756PRO #02121 Kachina #91900556 IC-765 #02437

Rod N0RC wrote:

>
> Let's start another list, we can do it for free using Yahoo Groups,
> we'll call it QRP-L-OT.
>
> So if we do set up QRP-L-OT how long will it be before OT posts on
> radio topics start appearing?

Date: Sun, 25 Nov 2001 08:35:48 -0700
From: "Steve/n0tu" <n0tu@qsl.net>
To: "QRP-L" <QRP-L@lehigh.edu>
Subject: [112792] Fw: 13.5 MHz IF Anybody
Message-ID: <003301c175c6\$dc426e00\$6a211d82@cos.agilent.com>

MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I find it kinda refreshing when someone's post states what's possible as apposed to what's impossible! It expands the idea instead of restricting it!! And out of that may come another idea that maybe become a reality!
...Steve/n0tu

>
> ----- Original Message -----
> From: "Jim Kortge, K8IQY" <jokortge@prodigy.net>
> To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
> Sent: Sunday, November 25, 2001 8:16 AM
> Subject: Re: 13.5 MHz IF Anybody
>
>
> > At 05:57 PM 11/24/01 -0800, you wrote:
> > >Dr. MC (and group),
> > >
> > >Wow! \$0.013 a crystal. Now that's my kind of pricing :-).
> > >
> > Mine too.....
> > >
> > >
> > >How about a 17 meter rig? The L0 would come out in the 4.5 MHz range.
> > >
> > >Hmmm.....Some cheapie crystals, then throw in some parts scrounged
from
> > >an old T.V. and/or VCR. Wonder what kinds of video amp. I.C.s can be
> > >lifted from those for use as a TX driver. Hmmm.....
> > >
> > >And a half-wave antenna for 17 is only 26 ft. long.
> > >
> > >This could get interesting.
> > >
> > Or a couple of other possibilities. Use the 13.5 MHz rock in a VXO
> > and double it up to 27 MHz. Mix that with a 24 MHz rock, to use
> > in a direct conversion 40 meter rig. Or, same VXO setup and use
> > it as the L0 for a 12 meter rig, with the IF at 2 MHz. Both
> > 24 MHz and 2 MHz computer crystals are readily available.
> > >
> > And another non-ham one. FM modulate the 13.5 MHz oscillator
> > and multiply it by 8 up to 108 MHz for you own little low powered
> > FM station.
> > >

> > Maybe this could be the design contest for Dayton 2002. Design
> > a transmitter, receiver, whole rig, etc., which makes use of
> > 13.5 MHz crystals.
> >
> > Enough.....
> >
> > 72,
> >
> > Jim, K8IQY
> >
>

Date: Sun, 25 Nov 2001 10:38:42 -0500
From: "Jim Kortge, K8IQY" <jokortge@prodigy.net>
To: qrp-l@lehigh.edu
Subject: [112793] Re: 13.5 MHz IF Anybody
Message-ID: <5.0.2.1.1.20011125103547.00a40ec0@pop.prodigy.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

At 10:16 AM 11/25/01 -0500, I wrote:
000ps. I didn't type that correctly.

>Or a couple of other possibilities. Use the 13.5 MHz rock in a VX0
>and double it up to 27 MHz. Mix that with a 24 MHz rock,

That should have been 20 MHz rock

> to use
>in a direct conversion 40 meter rig. Or, same VX0 setup and use
>it as the LO for a 12 meter rig, with the IF at 2 MHz. Both
>24 MHz and 2 MHz computer crystals are readily available.

20 and 2 MHz

That's what happens when you type too fast for your 58 year old
brain!!!

72,

Jim, K8IQY

Date: Sun, 25 Nov 2001 10:42:02 -0500
From: "Bill, N4QA" <n4qa@hotmail.com>
To: qrp-l@Lehigh.EDU
Subject: [112794] Re: DB-9 connector question
Message-ID: <F59sSdk0WHaBAHnnmDy0000de98@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

We're baaaaaack!

I've been wrong before so this is probably just one more time.

Some well(?)-known 'D' connectors:

DA-15, DB-25, DC-??, DD-??, DE-9.

These all come in both the M and F suffix varieties.

I can't remember where the DC and DD connectors are used but they do (did) exist. I'm sure these and others may be found in IEEE specification documents...

73.
Bill, N4QA

Get your FREE download of MSN Explorer at <http://explorer.msn.com/intl.asp>

Date: Sun, 25 Nov 2001 10:58:33 -0500
From: "Brice D. Hornback" <bdh@cyberbound.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [112795] Re: 13.5 MHz IF Anybody
Message-ID: <21d001c175ca\$09520ba0\$7001a8c0@lwrnc1.in.home.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

What's the easiest way to mix two crystlas?

72/73 DE KA8MAV (Brice)
Indianapolis, IN EM79au
QRPp-I #1, QRP ARCI #10972, QRP-L #2360, ARRL
KLQRP, FPQRP -156, ARS #1,138, NETXQRP #27
AOL Instant Messenger ID: ka8mav

QRPP International & Tiny-Tornado Transceiver Kits
<http://www.QRPP-I.com>

----- Original Message -----

From: Jim Kortge, K8IQY <jokortge@prodigy.net>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Sent: Sunday, November 25, 2001 10:38 AM
Subject: Re: 13.5 MHz IF Anybody

> At 10:16 AM 11/25/01 -0500, I wrote:
> 000ps. I didn't type that correctly.
>
> >Or a couple of other possibilities. Use the 13.5 MHz rock in a VXO
> >and double it up to 27 MHz. Mix that with a 24 MHz rock,
>
> That should have been 20 MHz rock
>
> > to use
> >in a direct conversion 40 meter rig. Or, same VXO setup and use
> >it as the LO for a 12 meter rig, with the IF at 2 MHz. Both
> >24 MHz and 2 MHz computer crystals are readily available.
>
> 20 and 2 MHz
>
> That's what happens when you type too fast for your 58 year old
> brain!!!
>
> 72,
>
> Jim, K8IQY
>

Date: Sun, 25 Nov 2001 11:01:21 -0500
From: "W. Keith Hibbert" <wb2vuo@frontiernet.net>
To: qrp-l@lehigh.edu
Subject: [112796] Ear Wax and QRP
Message-ID: <5.1.0.14.0.20011125105352.009f9930@pop3.frontiernet.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Well, as another op on the wrong side of 50, I find the Ear Wax Episodes enlightening.

If you can't hear a station, QRP or QRO, you can't work them, and the unfortunate truth is that problems such as the wax build-up mentioned seem to be more common after 50 than before.

As it is, working in noisy and dusty/dirty environments (with suitable OSHA-approved hearing protection), I have noticed the build-up problem in the past. The more noise, the more wax.

If you go back and read the original post, the first concern was the possibility of permanent hearing loss, followed by the relief that it was a temporary condition.

If it was you that suddenly found you could not hear the rig, well then how would you feel?

73, Keith, WB2VUO
mailto:wb2vuo@arrl.net

Date: Sun, 25 Nov 2001 11:03:08 -0500
From: "ZOOM" <kandrparker@sympatico.ca>
To: <ko4wx@mindspring.com>,
"Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [112797] Re: Warbler-80 receive modification..help!
Message-ID: <004201c175ca\$ace1b040\$3294fea9@robertpa>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Earlier someone had a mod where they used a variable pot of 500 ohms in R17 and a 0.01uF cap. The cap was connected to the center term of the pot so the AC gain could be varied. I think this is a better scheme cause you can have the pot as a variable gain control. Especially if you get stron signals coming in you can decrease the gain.

```
| <--500ohm pot
/-----C
\      A <----0.01uF Cap
|      P
-----
```

Regards,
Robert
VE3RPF
----- Original Message -----

From: Michael C. Boatright <ko4wx@mindspring.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Sent: Sunday, November 25, 2001 8:29 AM
Subject: Re: Warbler-80 receive modification..help!

> Kevin,
>
> A .01uF paralleled with R17 will do the trick. Puts the emitter at RF
> ground, which essentially gives DC bias. Many Warblers, especially the
> early runs, had really HOT transistors (e.g. high beta) and amplified with
> just the trickle through R16.
>
> Note a similar mod can be made to Q3 in the transmit chain if you are not
> getting full output. I was only getting 1 to 1.5 Watts out. Traced the
> voltages through the chain and found that I wasn't getting the expected
> gain out of Q3/Q4 driver stage. Paralleled a .01 uF across R8 and now I'm
> getting full 3 Watts out.
>
> 72 de Mike, K04WX
> Michael C. Boatright
>

Date: Sun, 25 Nov 2001 08:16:36 -0800 (PST)
From: "J.K. Chapman" <jkchappy@yahoo.com>
To: qrp-l@Lehigh.EDU
Subject: [112798] FS: QRP+ and Miricle Whip
Message-ID: <20011125161636.12910.qmail@web14604.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Hello,

I have a mint condition QRP+ with the original box, hand mic, tune button, manual, and Miricle Whip antenna.

I have not gotten it on the air, and need to sell it due to being "downsized".

\$425.00
please email me off list.

tnx

73,

de

J.K. Chapman

N8LGV

Do You Yahoo!?

Yahoo! GeoCities - quick and easy web site hosting, just \$8.95/month.
<http://geocities.yahoo.com/ps/info1>

Date: Sun, 25 Nov 2001 10:16:48 -0600
From: "Len Revelle" <lenrev@ameritech.net>
To: "QRP-L" <qrp-l@lehigh.edu>,
"FT817 reflector" <FT817@yahoogroups.com>
Subject: [112799] Galapagos with 817 on 6 meters!
Message-ID: <JDEJKNHICDBPHBFOCEJMIEBACPAA.lenrev@ameritech.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Way cool. Happened onto six and heard a local ID'ing as if he missed the band switch (CQWW CW is running). Heard HC8N, S9 and snagged him with the Cushcraft log. No other sigs heard and he remains S9 for some 20 minutes, so far.

Len Revelle N9IJ
AMA 60055 LSF 7492
QRP-ARCI#10923 QRP-L#2353
ARS#1099 Live Wire#529
lenrev@ameritech.net

Date: Sun, 25 Nov 2001 09:42:07 -0700 (MST)
From: "Karl F. Larsen" <k5di@zianet.com>
To: <qrp-l@lehigh.edu>
Subject: [112800] Ten Meters!
Message-ID: <Pine.LNX.4.33.0111250939350.1800-1000000@cannac.fun>

MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Even if your not into contesting tune your radio to 10 meter CW and hear the din of 100's of DX stations spread out from 28.000 to 28.080 MHz. It is just simply amazing!! The best opening to Europe from New Mexico I have seen in 40 years.

--
Yours Truly,

- Karl F. Larsen, k5di@arrl.net (505) 524-3303 -
<http://www.qsl.net/k5di/>

Date: Sun, 25 Nov 2001 10:41:08 -0600
From: Steve Yates - AA5TB <aa5tb@arrl.net>
To: QRP-L Distribute <qrp-l@Lehigh.EDU>
Subject: [112801] Re: Is it just me...
Message-ID: <000901c175cf\$fcedaf80\$c9713ed8@pavilion>
MIME-version: 1.0
Content-type: text/plain; charset=iso-8859-1
Content-transfer-encoding: 7BIT

Hi Rod,

No, it's not just you. The ear wax thread has just about did it for me. Maybe this should be called the OF's list.

73,
Steve Yates - AA5TB
Fort Worth, TX - EM12gs
<http://www.geocities.com/aa5tb>
aa5tb@arrl.net

Date: Sun, 25 Nov 2001 08:41:31 -0800 (PST)
From: Bill ROWLETT <kc4atu@yahoo.com>
To: w5yr@att.net, Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [112802] Re: proposal for dealing with OT

Message-ID: <20011125164131.27339.qmail@web14203.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

And don't forget the Freeway with it's toll both
back to the cave

Do You Yahoo!?
Yahoo! GeoCities - quick and easy web site hosting, just \$8.95/month.
<http://geocities.yahoo.com/ps/info1>

Date: Sun, 25 Nov 2001 09:46:02 -0700 (MST)
From: "Karl F. Larsen" <k5di@zianet.com>
To: Rod N0RC <rod@n0rc.com>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [112803] Re: proposal for dealing with OT
Message-ID: <Pine.LNX.4.33.0111250945220.1800-100000@cannac.fun>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Go for it Rod. Enjoy your new list.

On Sun, 25 Nov 2001, Rod N0RC wrote:

> Let's start another list, we can do it for free using Yahoo Groups,
> we'll call it QRP-L-OT.
>
> Anything goes, topics allowed but are not limited to:
>
> o Ear Wax
> o computer viruses
> o toe-jam removal
> o non radio uses for Altoids Tins
> o Chile recipes
> o irrational rant on any topic you choose...
>
> Give me the word and I set it up.
>
> So if we do set up QRP-L-OT how long will it be before OT posts on
> radio topics start appearing?
>
> ***Happy Holidays***

> 73, Rod N0RC
> Ft Collins, CO
>
>

--

Yours Truly,

- Karl F. Larsen, k5di@arrl.net (505) 524-3303 -
<http://www.qsl.net/k5di/>

Date: Sun, 25 Nov 2001 08:44:24 -0800
From: "William Phinizy" <k6whp@gte.net>
To: "QRP-L" <qrp-l@Lehigh.EDU>
Cc: <nn1g@earthlink.net>
Subject: [112804] Elmer 101- shipment delay
Message-ID: <000b01c175d0\$71700a60\$22ab173f@k6whp>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Dave,

Sorry to intrude, but I just happened top notice a thread on QRP-l mentioning an elmer 101 involving the SW-20+. Coincidentally, I ordered a 20-meter kit+RIT+enclosure when I spied a nice tall poplar tree at work *just* begging for a delta loop and thought I'd give some noontime DX a try from the left coast.

Has the Elmer 101 cycle been started up again with this rig and, if so, are there new URLs available to chek out?

My thanks in advance and, as a builder of a couple of SW+ rigs, I gotta tell you new guys, you're in for a treat when you get done!

72,

Bill, K6WHP

Date: Sun, 25 Nov 2001 16:49:02 +0000

From: "Leon Heller" <leon_heller@hotmail.com>
To: bdh@cyberbound.net, qrp-1@Lehigh.EDU
Subject: [112805] Re: 13.5 MHz IF Anybody
Message-ID: <F70Vm5wkw9r4pZXlFa1000258ec@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

>From: "Brice D. Hornback" <bdh@cyberbound.net>
>Reply-To: bdh@cyberbound.net
>To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
>Subject: Re: 13.5 MHz IF Anybody
>Date: Sun, 25 Nov 2001 10:58:33 -0500
>
>What's the easiest way to mix two crystals?
>

How about two SA612s. Use one as an oscillator with one crystal, and the other, with the other crystal in the oscillator circuit, as the mixer. The output might not be very clean, but could be filtered.

Or, one SA612 with one crystal mixing with the output from a conventional crystal oscillator circuit.

73, Leon

--

Leon Heller, G1HSM Tel: +44 1327 359058 Email:leon_heller@hotmail.com
My web page: http://www.geocities.com/leon_heller
My low-cost Altera Flex design kit: <http://www.leonheller.com>

Get your FREE download of MSN Explorer at <http://explorer.msn.com/intl.asp>

Date: Sun, 25 Nov 2001 16:49:49
From: "Mike WA8BXN" <hubby2k@hotmail.com>
To: qrp-1@Lehigh.EDU
Subject: [112806] RE: absorptive bridge
Message-ID: <F125vmASWz6V8c56ln80000b6a9@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

The absorptive bridge is a real bridge, it just has loss in the resistors. Its also non-adjustable as normally used in qrp work so you can't do measurements, just the null at best match. As we have them set up, the null occurs when the load is purely resistive matching the resistors. Anything else, resistive or reactive, causes unbalance and loss of null. Of course you could use the bridge to measure both resistance and reactance by adding variable resistance and reactance. Then just spin the knobs and see what they read at null. The measurements chapter of any ARRL handbook should give a lot of useful information on the topic.

73/72 - Mike WA8BXN

Get your FREE download of MSN Explorer at <http://explorer.msn.com/intl.asp>

Date: Sun, 25 Nov 2001 08:18:20 -0800
From: "Louie" <lou@harborside.com>
To: "QRP-L" <qrp-l@Lehigh.EDU>
Subject: [112807] Re: Is it just me...
Message-ID: <006d01c175d1\$6f9d9ee0\$6e352d0c@rita>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

No, It's not just you...

This is a HAM thread, it is about radio not ears or other parts of our body.

CUL, 72 & 73
XE2EKK, Lou

----- Original Message -----

From: "Rod N0RC" <rod@n0rc.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Saturday, November 24, 2001 8:49 PM
Subject: Is it just me...

> Or do others find reading about various medical procedures such as ear
> wax removal, annoying?
>
> I could be wrong there may indeed be some connection between QRP

> radio, ear wave removal and God knows what else. If I'm wrong please
> enlighten me, I'll gladly shut up and revert to DEL key mode.
>
> I do have a radio/qrp question if that is allowed: I just completed a
> BLT tuner kit, works FB! I'd like to know more about how the
> absorptive bridge works. Can somebody point me to a Theory of
> Operation article? Thank you in advance. I hope my non-OT question is
> not to much a bother.
>
> ***Happy Holidays***
> 73, Rod NØRC
> Ft Collins, CO
>
>

Date: Sun, 25 Nov 2001 09:51:11 -0700
From: "Bob Hightower" <nk7m@extremezone.com>
To: <craigwb@hiwaay.net>
Cc: "qrp list" <qrp-l@lehigh.edu>
Subject: [112808] Re: Need Noise Generation Board to Use with Spectrogram
Message-ID: <004d01c175d1\$641caca0\$a127d3f@dell>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Yes, we did, Craig, but we're out of them. Tom Hammond had some boards, I believe. Might check with him.

Bob NK7M

----- Original Message -----
From: "Craig W. Behrens" <craigwb@hiwaay.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Sunday, November 25, 2001 7:43 AM
Subject: Need Noise Generation Board to Use with Spectrogram

> Could someone please let me know if/where/how I can get a Noise
> Generator kit to use with Spectrogram. Seems like the AZ ScQRPions (or
> some other club) offered one.
>
> Thanks.
>
> 72/73 & DX,

> Craig W. Behrens--NM4T
> Madison, AL
>

Date: Sun, 25 Nov 2001 09:59:32 -0700
From: "Steve Thompson" <steve@xcvr.com>
To: <k6whp@gte.net>
Cc: <qrp-1@lehigh.edu>
Subject: [112809] Re: Elmer 101- shipment delay
Message-ID: <200111250959.AA165871888@xcvr.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Bill,

I am maintaining the "Class Notes" for the current session of Elmer 101. It contains an archive of important posts, tips and related links for the class, and it will continue to accumulate such info as it comes out throughout the class session. It can be found at:

<http://www.xcvr.com/default.asp?view=elmer101>

72,
Steve N7TX
Irving, TX

----- Original Message -----
From: "William Phinizy" <k6whp@gte.net>
Reply-To: k6whp@gte.net
Date: Sun, 25 Nov 2001 08:44:24 -0800

>Dave,

>

>Sorry to intrude, but I just happened top notice a thread on QRP-1
>mentioning an elmer 101 involving the SW-20+. Coincidentally, I
>ordered a 20-meter kit+RIT+enclosure when I spied a nice tall poplar
>tree at work *just* begging for a delta loop and thought I'd give some
>noontime DX a try from the left coast.

>

>Has the Elmer 101 cycle been started up again with this rig and, if
>so, are there new URLs available to chek out?

>

>

>My thanks in advance and, as a builder of a couple of SW+ rigs, I
>gotta tell you new guys, you're in for a treat when you get done!

>
>72,
>
>Bill, K6WHP
>
>

Date: Sun, 25 Nov 2001 12:06:20 -0500
From: Alex <kr1st@amsat.org>
To: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [112810] DELETE if not interested. How I deal with OT subjects.
Message-ID: <3C01250C.48F83B40@amsat.org>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

When people initially subscribe to a mailing list it is because they are interested in the subject, but as time goes by something happens that happens everywhere where people interact with each other. People start to feel a sense of community and share other things than what initially brought them together. This happens at work, the gym or even at the sports bar. A mailing list is not any different; only the means of communication is different, but for some reason we'd like to impose a different set of rules and require that every participant is acting in a uniform way and should forget that he or she is a social being. Ignoring the latter fact is what usually get email lists in trouble. Worse, when someone acts outside the boundaries set by those rules we allow ourselves to ridicule the person and virtually lynch him or her in public, something we wouldn't probably even think of if we were all face to face with each other.

One could set up a QRP breakfast club and meet every Tuesday at a local restaurant, with the intention to share ideas and experiences related to QRP operation. At one of these meetings someone announces that his hearing is going bad to the point so that he might have to let go of his

favorite mode of operation. Surprisingly, we are very capable of dealing with this situation and we express our hopes that the doctor can help him. This only will strengthen the sense of community, especially for the

person with the problem. At the next meeting the person announces that his hearing has been improved after the visit to the doctor and shares what his doctor told him to prevent this situation from happening to him. This is only natural since the person believes that especially the people who expressed their concern might be interested, and perhaps others could benefit from it. One thing is certain, the intent of the person is not to try to disrupt the QRP breakfast meeting. We all know this at the breakfast meeting so we give it the attention we think it deserves and move on. None of the attendants will say it straight to his face to shut up and that only QRP operation is to be discussed (sure we all know that there are always exceptions) because that's not how we deal with these things in a civilized world.

What it boils down to is how tolerant are we willing to be in a community and on this list. Sometimes it seems that the tolerance level is extremely low, especially in the case of the earwax removal tip. The writer was not even calling anyone names or making fun of someone as others appear to find necessary. It was actually pretty harmless. What are we going to do

next time when someone announces that cancer is impairing the enjoyment of QRP operation and later announces a way to regain that enjoyment? I will think of what I would do if it would happen at one of those breakfast meetings. Acting civilized and not ridicule the person or tell the person to please drop the subject and only discuss QRP operation.

Ironically, there have been more posts about the off topicness of the earwax removal tip, than about the earwax tip. You may wonder which is more disruptive to the email list. If we should have a low tolerance level towards something, that it should be towards these kinds of complaint postings. You just know sooner or later the writer of an OT complaint post will post an OT post him or herself. If I have a problem with someone posting too many OT postings I'll only address that to him or her. It serves no purpose to do this in public. The only result would be more OT postings of people who feel they need to chime in. My posting would be just as disruptive to the list as the original OT posting.

This message too is off topic, how will you react?

73s,
--Alex

Date: Sun, 25 Nov 2001 17:06:36 +0000
From: "Leon Heller" <leon_heller@hotmail.com>
To: qrp-1@Lehigh.EDU
Subject: [112811] SPICE and crystal ladder filter design
Message-ID: <F217uF4MUWLIUe6ypvo0000fb68@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

Spurred on by the discussion of 13.5 MHz crystals in ladder filters, I've been playing with a 4.00 MHz CW filter design in both PSPICE and the Pulsonix SPICE I'm beta-testing.

The circuit I've been using is from an interesting analysis of that used in the SW40+ to be found here:

<http://engphys.mcmaster.ca/~elmer101/cohn.html>

It is a Cohn-type Butterworth filter with three crystals. If anyone wants a copy of my PSPICE schematic please let me know, it'll save some time entering it.

I'm using the student version of PSPICE. It can be downloaded from the Cadence web site:

<http://www.cadence.com>

It's limited to a relatively small number of nodes and components, but you are unlikely to reach that limit with most amateur designs. Especially when designing filters.

SPICE is an ideal way to check your filter design before you actually build it. The Handbook has some representative crystal parameters you can use if you don't want to actually measure them - just design the filter using the parameters and simulate it. This is a good way to check out the design procedure and make sure you understand it.

PSPICE isn't very easy to get into. If anyone wants some help just email me.

73, Leon

--

Leon Heller, G1HSM Tel: +44 1327 359058 Email:leon_heller@hotmail.com
My web page: http://www.geocities.com/leon_heller
My low-cost Altera Flex design kit: <http://www.leonheller.com>

Get your FREE download of MSN Explorer at <http://explorer.msn.com/intl.asp>

Date: Sun, 25 Nov 2001 12:16:30 -0500
From: "Brice D. Hornback" <bdh@cyberbound.net>
To: <lou@harborside.com>,
"Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [112812] Re: Is it just me...
Message-ID: <225c01c175d4\$edba2340\$7001a8c0@lwinc1.in.home.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Just like an antenna is only ONE part of an "antenna system"... last time I checked, my ears are part of my "radio system". It's not only ON TOPIC but very informative.

I'd like to THANK Karl for sharing the audio improvement tips with us.

72/73 DE KA8MAV (Brice)
Indianapolis, IN EM79au
QRPP-I #1, QRP ARCI #10972, QRP-L #2360, ARRL
KLQRP, FPQRP -156, ARS #1,138, NETXQRP #27
AOL Instant Messenger ID: ka8mav

QRPP International & Tiny-Tornado Transceiver Kits
<http://www.QRPP-I.com>

----- Original Message -----
From: Louie <lou@harborside.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Sent: Sunday, November 25, 2001 11:18 AM
Subject: Re: Is it just me...

> No, It's not just you...
> This is a HAM thread, it is about radio not ears or other parts of our
> body.

>
> CUL, 72 & 73
> XE2EKK, Lou

>
> ----- Original Message -----
> From: "Rod N0RC" <rod@n0rc.com>
> To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
> Sent: Saturday, November 24, 2001 8:49 PM
> Subject: Is it just me...

>
>
> > Or do others find reading about various medical procedures such as ear
> > wax removal, annoying?
> >
> > I could be wrong there may indeed be some connection between QRP
> > radio, ear wax removal and God knows what else. If I'm wrong please
> > enlighten me, I'll gladly shut up and revert to DEL key mode.
> >
> > I do have a radio/qrp question if that is allowed: I just completed a
> > BLT tuner kit, works FB! I'd like to know more about how the
> > absorptive bridge works. Can somebody point me to a Theory of
> > Operation article? Thank you in advance. I hope my non-OT question is
> > not to much a bother.
> >
> > ***Happy Holidays***
> > 73, Rod NØRC
> > Ft Collins, CO
> >
> >
>

Date: Sun, 25 Nov 2001 17:23:28 +0000
From: Garie Halstead <k8kfj@ntelos.net>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [112813] =?iso-8859-1?Q?SGC=2D2=D82=D8?=
Message-ID: <3C00E2C0.F29BA3BF@ntelos.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I would to thank NW7DX, AA8VS, KF7ET and W2AGN for their FB comments concerning the above rig. Your comments have been forwarded to my friend who also thanks you.

72 //Gary *K8KFJ*
West Virginia

Date: Sun, 25 Nov 2001 17:25:55
From: "Mike WA8BXN" <hubby2k@hotmail.com>
To: somerville@uniserve.com, qrp-1@Lehigh.EDU
Subject: [112814] more on the absorptive bridges....
Message-ID: <F179119c4NC9a2AV8bw0001f359@hotmail.com>

Mime-Version: 1.0
Content-Type: text/plain; format=flowed

I was asked ...

So it is a Wheatstone bridge? Why dissipate power other than through the antenna or is the rest of the bridge switched out for use? I am sure the answer is obvious, but without a schematic it is a guess what is happening.

To which I would babble aimlessly

Yes, that's exactly what it is. Dissipating power protects the transmitter during antenna tuner adjustment. And yes, the bridge should be switched out after use. Of course you could leave it in as an attenuator, for both transmit and receive.

There are other ways of measuring SWR (actually the absorptive bridge does not measure SWR) that are close to lossless. The loss in the simple resistor bridge we often use are not really that much of a benefit, but since it's there, the protection it gives the transmitter allows the loss to be advertised as a "feature".

73/72 - Mike WA8BXN

Get your FREE download of MSN Explorer at <http://explorer.msn.com/intl.asp>

Date: Sun, 25 Nov 2001 12:28:48 -0500
From: Alex <kr1st@amsat.org>
To: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [112815] email problems
Message-ID: <3C012A50.464469CB@amsat.org>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi there,

For some reason Netscape decided I didn't need the email anymore sent to me between Sat 1pm and Sun noon. I know there were some info requests about the magnetic loop I just pictures up on my web page, but I'm unable to answer them now. Would you please send me the message again so I can answer it?

Thanks and 73,

--Alex

Date: Sun, 25 Nov 2001 17:34:24 -0000
From: "Thom Durfee" <wi8w@arrl.net>
To: <qrp-l@lehigh.edu>
Subject: [112816] October QQ
Message-ID: <005301c175d7\$6ce2b5e0\$6401a8c0@grapid1.mi.home.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Anyone received the October QQ yet? I noticed the other day that my membership was going to lapse in October 2001 so I quickly renewed it for another 2 years.

I am just wondering if I need to send a email to the Editor to send me one if I missed it or what.

On another note, I have been given the go ahead to come up with some kind of special QRP award for the year 2002. Have any ideas on what you would like to work for next year? Let me know so I can get it together for announcement in late December. The most popular idea will be the subject of the new award.

thanks

73

Thom Durfee WI8W
Awards Manager QRPARCI

Date: Sat, 17 Nov 2001 17:45:29 -0000
From: "Ted Williams" <ted@g0ull.fsnet.co.uk>
To: "QRP-L" <qrp-l@lehigh.edu>
Subject: [112817] Fw: [Elmer 101] -- dumb soldering questions
Message-ID: <003101c16f90\$20bcc360\$0100000a@duro800>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

FWIW:

In a PCB assembly line using leaded components, it is normal to source components already bent and clipped, ready for automatic insertion followed by flow soldering.

For high quality hand work, it is normal to fit a number of components at one time, hold them in place with a rear flexible pad while soldering, then clip.

The clipping after soldering prevents shock being transmitted down the lead, avoiding possible damage to end connections on components, particularly semiconductors - always the most vulnerable part.

Note, by the way, it is rarely necessary to clean the leads on modern components, because the finishes are carefully designed to meet all the latest stringent specs on solderability. The gold flash on leads is just one method.

72/73

Ted, G0ULL

Date: Sat, 17 Nov 2001 17:41:53 -0000
From: "Ted Williams" <ted@g0ull.fsnet.co.uk>
To: "QRP-L" <qrp-l@lehigh.edu>
Subject: [112818] Fw: [Elmer 101] PCB prep
Message-ID: <003001c16f90\$1ffc80a0\$0100000a@duron800>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Brian (and list):

For many years it has been recommended that one does NOT use abrasive papers like sandpaper or emery paper, nor wire wool, to prepare work for

soldering. The problem is that particles become embedded in the surface which is no help at all.

For cleaning PCB board, I suggest the use of Scotchbrite (plastic scourers) or use of a proper block sold for the purpose (cheap) from electronics suppliers.

By all means use detergent, cleaning is complete when the water runs freely across the board without 'oily' patches.

Thorough drying, as you say, is essential.

Manufactured boards do not need cleaning, in my experience. Further, modern fluxes for electronics have no deleterious properties to my knowledge - but you can do a lot of harm by trying to wash it off

For interest, modern components are produced to much better specs than in years past, and the leads are given an easy-solder finish. They should not need cleaning.

Ted GOULL

> I have been reading opinions on prepping PCB material for solder. I
> usually
> just take mine to the table, and using a very fine sand paper, give it a
> good going over. Then wash it with soap and hot water

Date: Sun, 25 Nov 2001 10:48:56 -0700
From: "Rod NORC" <rod@n0rc.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [112819] Re: Need Noise Generation Board to Use with Spectrogram
Message-ID: <006b01c175d9\$7537d1b0\$6401a8c0@c919125b>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

HMM,

To bad they're not available in kit form any longer. BUT, if the schematic is published somewhere this would make a dandy Manhattan Style Construction project.

Does anybody know if the schematic is available in the public domain for such use?

Happy Holidays
73, Rod NØRC
Ft Collins, CO

----- Original Message -----

From: "Bob Hightower" <nk7m@extremezone.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Sunday, November 25, 2001 9:51 AM
Subject: Re: Need Noise Generation Board to Use with Spectrogram

> Yes, we did, Craig, but we're out of them. Tom Hammond had some boards, I

> believe. Might check with him.

>

> Bob NK7M

>

> ----- Original Message -----

> From: "Craig W. Behrens" <craigwb@hiwaay.net>

> To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

> Sent: Sunday, November 25, 2001 7:43 AM

> Subject: Need Noise Generation Board to Use with Spectrogram

>

>

> > Could someone please let me know if/where/how I can get a Noise

> > Generator kit to use with Spectrogram. Seems like the AZ ScQRPions

(or

> > some other club) offered one.

Date: Sun, 25 Nov 2001 12:50:50 -0500

From: "AI2Q Alex" <ai2q@adelphia.net>

To: <hubby2k@hotmail.com>,

"'Low Power Amateur Radio Discussion'" <qrp-l@Lehigh.EDU>

Subject: [112820] RE: more on the absorptive bridges....

Message-ID: <000401c175d9\$b8f1ec60\$6401a8c0@alex>

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

It should also be pointed out that these bridges maintain a low value (about

45 ohms to 100 ohm) resistive load that ensures that a QRP transmitter's PA is happy during antenna tuner (output network) adjustments. The simple bridge I use, right out of the Handbook, keeps me from replacing 2N2222s in my 2N2/40. A BYPASS switch removes it from the circuit after antenna adjustments have been satisfactorily made.

Vy 73, AI2Q, Alex in Kennebunk, Maine QRP-L 687 .-.-.

-----Original Message-----

From: owner-qrp-l@Lehigh.EDU [mailto:owner-qrp-l@Lehigh.EDU] On Behalf Of Mike WA8BXN

Sent: Sunday, November 25, 2001 5:26 PM

To: Low Power Amateur Radio Discussion

Subject: more on the absorptive bridges....

I was asked ...

So it is a Wheatstone bridge? Why dissipate power other than through the antenna or is the rest of the bridge switched out for use? I am sure the answer is obvious, but without a schematic it is a guess what is happening.

To which I would babble aimlessly

Yes, that's exactly what it is. Dissipating power protects the transmitter during antenna tuner adjustment. And yes, the bridge should be switched out after use. Of course you could leave it in as an attenuator, for both transmit and receive.

There are other ways of measuring SWR (actually the absorptive bridge does not measure SWR) that are close to lossless. The loss in the simple resistor bridge we often use are not really that much of a benefit, but since it's there, the protection it gives the transmitter allows the loss to be advertised as a "feature".

73/72 - Mike WA8BXN

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Date: Sun, 25 Nov 2001 12:54:56 -0500

From: Bill Lazure <n2tpa@juno.com>

To: qrp-1@lehigh.edu
Subject: [112821] Juno's dam has burst!
Message-ID: <20011125.125624.-957563.1.n2tpa@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

To everyone that's had recent trouble with Juno:

I just checked my Juno mail. Received 418 messages dating back to Nov 20. I would've received more, but a network error killed my connection. I think the drought is over.

73,

Bill
W2EB

GET INTERNET ACCESS FROM JUNO!
Juno offers FREE or PREMIUM Internet access for less!
Join Juno today! For your FREE software, visit:
<http://dl.www.juno.com/get/web/>.

Date: Sun, 25 Nov 2001 11:59:05 -0500
From: "Frank Emens" <femens@hiwaay.net>
To: kr1st@amsat.org
Cc: qrp-1@Lehigh.EDU
Subject: [112822] Re: DELETE if not interested. How I deal with OT subjects.
Message-ID: <200111251759.fAPHx5hM014771@mail.hiwaay.net>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT

I've got to respond to your post by saying "Right ON, Brother!" I've been mostly a lurker on this list for a long time -- as evidenced by my qrp-1 number -- and the thing that keeps me coming back is the diversity of topics discussed. If this list were ever constrained to be concerned with nothing but deep technical 'stuff' I'd be gone in a tick. As long as the list participants can be human beings with diverse interests, all related in some way with qrp operation, I'll be here.

Frank Emens
femens@hiwaay.net

Date: Sun, 25 Nov 2001 12:00:10 -0600
From: "George, W5YR" <w5yr@att.net>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [112823] Re: Need Noise Generation Board to Use with Spectrogram
Message-ID: <3C0131AA.6067859@att.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I have done fairly extensive IF filter response function plots using SpectroGram on several different receivers, among them the Icom PRO, Kachina 505DSP and Icom 765.

In all cases I found that normal band noise - a high-frequency band such as 10 or 6 meters with no signal present - was adequate input to allow a good estimate to be obtained of the filter response function.

Such noise is essentially "white" in spectral character as demonstrated by the completely flat response function of the PRO from about 80 Hz to 3600 Hz with the widest SSB filter setting. The DSP filters are more nearly theoretically perfect than analog filters, so I feel that their expected response provides a good measure of the utility of simple band noise as an excitation source.

I suggest that you try that approach before going the noise-generator route.

72/73, George W5YR - the Yellow Rose of Texas QRP-L 1373 NETXQRP 6
Fairview, TX 30 mi NE of Dallas in Collin county EM13qe SOC 262
Amateur Radio W5YR, in the 56th year and it just keeps getting better!
Icom IC-756PRO #02121 Kachina #91900556 IC-765 #02437

Date: Sun, 25 Nov 2001 10:05:05 -0800
From: "Bob Tellefsen" <n6wg@earthlink.net>
To: <qrp-l@lehigh.edu>
Subject: [112824] Re: Need Noise Generation Board to Use with Spectrogram
Message-ID: <MABBJOEABOILMKCJCLFCKELGCNAA.n6wg@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Craig

If you happen to have an antenna noise bridge, you can also use it for the noise source. I've been doing that with my K2 and Spectrogram, and it works fine.
73, Bob N6WG

Date: Sun, 25 Nov 2001 11:03:25 -0700
From: Brian Kassel <bkassel@dancris.com>
To: QRP-L <QRP-L@lehigh.edu>
Subject: [112825] RE: [112682] Re: 13.5 MHz IF Anybody?
Message-ID: <3C01326D.F058F2ED@dancris.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Dr MC and the QRP-L Gangue:

Dr. MC Said:

"Leon - I used to think this too, but Zack Lau, W1VT, designed a very nice 7MHz transceiver using 12 MHz crystals. Originally described in QEX, it was reprinted in QRP Power. At less than \$.02 per crystal, it seems like they might make a good learning tool. I can makes lots of mistakes for that price! - Dr. Megacycle KK6MC/5 "Radio Green Chile""

I also succumbed and bought a bunch of these crystals. Even if the frequency of 13.5 MHz. is not ideal, they are very cheap units to play with and ruin, if failure occurs.

How about a thread on using these rocks in filters etc.? As the Dr. mentions, at 2 cents per unit, we could really go nuts for peanuts (Pun intended).

Brian K7RE

Date: Sun, 25 Nov 2001 10:15:09 -0800
From: "Bob Tellefsen" <n6wg@earthlink.net>
To: <qrp-l@lehigh.edu>
Subject: [112826] Refurbished Telescoping Masts
Message-ID: <MABBJOEABOILMKCJCLFCCELHCNAA.n6wg@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

A while back, someone gave a reference for a company that recycles
telescoping masts
I checked it out at the time, but neglected to bookmark the URL.
Does it ring a bell for anyone? Can you point me in the right direction?
Thanks and 73,
Bob N6WG

Date: Sun, 25 Nov 2001 11:20:17 -0700
From: "Jerry McCollom" <w0mc@frii.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [112827] Re: proposal for dealing with OT
Message-ID: <012f01c175dd\$d610ec20\$baac11d8@MCCOLL0M186>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Rod said:

> Let's start another list, we can do it for free using Yahoo Groups,
> we'll call it QRP-L-OT.
>
> Anything goes, topics allowed but are not limited to:
>
> o Ear Wax

Where would I post about ear wax as a substitute for Q-Dope?

: -)

73,
Jerry
W0MC
(sorry folks....)

Date: Sun, 25 Nov 2001 13:23:04 -0500 (EST)
From: baltimoremd@baltimoremd.com
To: Rod N0RC <rod@n0rc.com>

Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [112828] Re: proposal for dealing with OT
Message-ID: <20011125132113.B9892-100000@unix1.vhost.min.net>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Sun, 25 Nov 2001, Rod N0RC wrote:

>

> So if we do set up QRP-L-OT how long will it be before OT posts on
> radio topics start appearing?

One would think the more specific the "Thou Shalt Not Post" post, and the more frequent, the quicker the OT will surface.

thom

baltimoremd@baltimoremd.com
<http://www.baltimoremd.com/>
<http://www.baltimorehon.com/>
<http://www.zerobeat.net>

Thom LaCosta K3HRN Webmaster
Baltimore's Home Page
Home of the Baltimore Lexicon
Home of The QRP Web Ring
and Drake Mail List Pages

Date: Sun, 25 Nov 2001 13:24:55 -0500
From: "Mark J. Dulcey" <mark@buttery.org>
To: n4qa@hotmail.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [112829] Re: DB-9 connector question
Message-ID: <3C013777.6010306@buttery.org>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit

Bill, N4QA wrote:

> We're baaaaack!

>

> I've been wrong before so this is probably just one more time.

>

> Some well(?)-known 'D' connectors:

>

> DA-15, DB-25, DC-??, DD-??, DE-9.

>

> These all come in both the M and F suffix varieties.

>

> I can't remember where the DC and DD connectors are used but they do

> (did) exist. I'm sure these and others may be found in IEEE
> specification documents...

DC-37 and DD-50.

I've seen both used, but not recently. The 50-pin ones used to appear on external tape drives for PCs that didn't use SCSI.

Date: Sun, 25 Nov 2001 13:30:21 -0500
From: W2AGN <w2agn@pobox.com>
To: "Jerry McCollom" <w0mc@frii.com>,
 "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [112830] Re: proposal for dealing with OT
Message-ID: <01112513302100.02131@njbirdman>
Content-Type: text/plain;
 charset="iso-8859-1"
MIME-Version: 1.0
Content-Transfer-Encoding: 8bit

On Sunday 25 November 2001 13:20, Jerry McCollom wrote:

>
> Where would I post about ear wax as a substitute for Q-Dope?
>
> :-)
>
> 73,
> Jerry
> W0MC

--

According to the FAQ, that goes before "Toe Jam for Toroids, " and after "Belly-button lint as a Soundproofing Medium."

John L Sielke W2AGN
 w2agn@pobox.com
http://www.qsl.net/w2agn

Date: Sun, 25 Nov 2001 13:28:54 -0500
From: "Mike Yetsko" <myetsko@insydesw.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [112831] Re: Is it just me...
Message-ID: <006801c175df\$25bbb560\$0600a8c0@charter.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Gee, do you want to also keep out topics on headphones? Or spatial perception systems for CW filtering? Or

Geesh...

Some people are so lazy they don't want to hit a delete key, but they sure can type on the others!

Mike

Date: Sun, 25 Nov 2001 13:31:47 -0500
From: "Mike Yetsko" <myetsko@insydesw.com>
To: <w2agn@pobox.com>,
 "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [112832] Re: OT: Ear Wax Removal
Message-ID: <007e01c175df\$72dc94e0\$0600a8c0@charter.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

> Now, Bruce, the list rallied to Karl's support when mean old me was
picking
> on him, so now the list gets to enjoy ear wax removal. Stay tuned
tomorrow
> for "Nose-picking for Fun and Profit."
>
> John L Sielke W2AGN

Now, you'd just better be able to tie that to QRP somehow! What, you load them up as a disguise antenna? Or use them for lubrication of your coil slugs?

Mike

Date: Sun, 25 Nov 2001 13:37:14 -0500
From: "Mark J. Dulcey" <mark@buttery.org>
To: rod@n0rc.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [112833] Re: Need Noise Generation Board to Use with Spectrogram
Message-ID: <3C013A5A.2050603@buttery.org>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit

Rod N0RC wrote:

> HMM,
>
> To bad they're not available in kit form any longer. BUT, if the
> schematic is published somewhere this would make a dandy Manhattan
> Style Construction project.
>
> Does anybody know if the schematic is available in the public domain
> for such use?

N0SS has the schematic and board layout online:
http://home.earthlink.net/~n0ss/noise_source.pdf

Date: Sun, 25 Nov 2001 13:40:08 -0500
From: "Michael C. Boatright" <ko4wx@mindspring.com>
To: "ZOOM" <kandrparker@sympatico.ca>
Cc: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [112834] Re: Warbler-80 receive modification..help!
Message-ID: <5.0.2.1.2.20011125133754.02271b00@pop.mindspring.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

True...might just try it. Only thing is that you have to take R17 out of the circuit. Not a big deal. But it's real easy to tack a .01 on to R17 on the top of the board...quick fix to see if your rig is working at all...

72 de Mike, K04WX

At 11:03 11/25/01 -0500, ZOOM wrote:

>Earlier someone had a mod where they used a variable pot of 500 ohms in R17
>and a 0.01uF cap. The cap was connected to the center term of the pot so
>the AC gain could be varied. I think this is a better scheme cause you can
>have the pot as a variable gain control. Especially if you get stron
>signals coming in you can decrease the gain.

>

>| <--500ohm pot

>/-----C

>\ A <----0.01uF Cap

>| P

>-----

>

>Regards,

>Robert

>VE3RPF

>----- Original Message -----

>From: Michael C. Boatright <ko4wx@mindspring.com>

>To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>

>Sent: Sunday, November 25, 2001 8:29 AM

>Subject: Re: Warbler-80 receive modification..help!

>

>

> > Kevin,

> >

> > A .01uF paralleled with R17 will do the trick. Puts the emitter at RF
> > ground, which essentially gives DC bias. Many Warblers, especially the
> > early runs, had really HOT transistors (e.g. high beta) and amplified with
> > just the trickle through R16.

> >

> > Note a similar mod can be made to Q3 in the transmit chain if you are not
> > getting full output. I was only getting 1 to 1.5 Watts out. Traced the
> > voltages through the chain and found that I wasn't getting the expected
> > gain out of Q3/Q4 driver stage. Paralleled a .01 uF across R8 and now I'm
> > getting full 3 Watts out.

> >

> > 72 de Mike, K04WX

> > Michael C. Boatright

> >

Date: Sun, 25 Nov 2001 13:46:51 -0500

From: "Ken Wezeman" <ken@alassociates.com>

To: <qrp-l@lehigh.edu>

Subject: [112835] Re: DELETE if not interested. How I deal with OT subjects.

Message-ID: <004c01c175e1\$8ebfa420\$4d608041@m0h7f1>

MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Wow, Alex. Thank you for your astute comments! They were very well stated.

Ken Wezeman, N9QIL

Date: Sun, 25 Nov 2001 19:09:36 +0000
From: "Leon Heller" <leon_heller@hotmail.com>
To: bkassel@dancris.com, qrp-l@Lehigh.EDU
Subject: [112836] RE: [112682] Re: 13.5 MHz IF Anybody?
Message-ID: <F6jAKYVpMm0lbcrYP0Q0000aad2@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

>From: Brian Kassel <bkassel@dancris.com>
>Reply-To: bkassel@dancris.com
>To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
>Subject: RE: [112682] Re: 13.5 MHz IF Anybody?
>Date: Sun, 25 Nov 2001 11:03:25 -0700
>
>Dr MC and the QRP-L Gangue:
>
>Dr. MC Said:
>"Leon - I used to think this too, but Zack Lau, W1VT, designed a very
>nice
>7MHz transceiver using 12 MHz crystals. Originally described in QEX, it
>was
>reprinted in QRP Power. At less than \$.02 per crystal, it seems like
>they
>might make a good learning tool. I can makes lots of mistakes for that
>price! - Dr. Megacycle KK6MC/5 "Radio Green Chile"
>
> I also succumbed and bought a bunch of these crystals. Even if the
>frequency of 13.5 MHz. is not ideal, they are very cheap units to play
>with and ruin, if failure occurs.
>
> How about a thread on using these rocks in filters etc.? As the Dr.
>mentions, at 2 cents per unit, we could really go nuts for peanuts (Pun

>intended).
>

If you could measure the parameters, I could try out a few designs with them using SPICE.

You don't need to make the tester described in the QST articles. A decent sig. gen., a scope and a few resistors (to make a pad) are all that is required, although the tester makes things easier.

I favour a design with different value capacitors, rather than the designs with identical values that most people use. The actual design process is *much* easier, and I seem to get a smoother response when it's simulated.

73, Leon

--

Leon Heller, G1HSM Tel: +44 1327 359058 Email:leon_heller@hotmail.com

My web page: http://www.geocities.com/leon_heller

My low-cost Altera Flex design kit: <http://www.leonheller.com>

Get your FREE download of MSN Explorer at <http://explorer.msn.com/intl.asp>

Date: Sun, 25 Nov 2001 12:34:05 -0700
From: "Jim FitzSimons" <cherry@getnet.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [112837] Re: CQWWDX 10 is open a tiny bit
Message-ID: <043801c175e8\$25bb9f40\$8922893f@pavilion>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Ten is open. I just worked two stations on psk31.
It is very unstable as you would expect with a A=98.
Jim W7ANF

----- Original Message -----

From: "Karl F. Larsen" <k5di@zianet.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Saturday, November 24, 2001 12:51 PM
Subject: CQWWDX 10 is open a tiny bit

>
> I'm up on 10, got zone 8 which put my score over 1000 (Yeh!) but
> the going is very tough. Each station I have to call many times and repeat
> for. Not like last evening where I worked all I could hear/copy.
>
> --
> Yours Truly,
>
> - Karl F. Larsen, k5di@arrl.net (505) 524-3303 -
> <http://www.qsl.net/k5di/>
>
>

Date: Sun, 25 Nov 2001 19:43:50 GMT
From: kb1dxc@discovernet.net (kb1dxc)
To: qrp-1@Lehigh.EDU
Cc: n6wg@earthlink.net
Subject: [112838] Re: Refurbished Telescoping Masts
Message-ID: <v01530507b826b3ad8c99@[216.221.130.128]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Bob,

I think this is the page you are looking for. I might suggest that you put in the address before you go to bed, it might finish loading by the time you wake up in the morning.

<http://www.angelfire.com/fl3/TelescopicMasts/>

Mike
kb1dxc

>A while back, someone gave a reference for a company that recycles
>telescoping masts
>I checked it out at the time, but neglected to bookmark the URL.
>Does it ring a bell for anyone? Can you point me in the right direction?
>Thanks and 73,
>Bob N6WG

Just remember: It IS as BAD as you think, and they ARE out to get you.

email address : kb1dxc@discovernet.net

MY WEB SITE IS: <http://www1.discovernet.net/~kb1dxc/>

MY RADIO WEB SITE IS AT: <http://www.qsl.net/kb1dxc>

The web site of the Stamford Amateur Radio Association:
<http://www.qsl.net/w1ee>

MIKE

Date: Sun, 25 Nov 2001 12:46:44 -0500
From: Pete Burbank <plburbank@kih.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [112839] Re: DELETE if not interested. How I deal with OT subjects.
Message-ID: <5.0.2.1.0.20011125124210.00ac4800@KIH.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

At 12:06 PM 11/25/2001 -0500, Alex wrote:

>When people initially subscribe to a mailing list it is because they are
>interested in the subject, but as time goes by something happens that
>happens everywhere where people interact with each other. People start
>to feel a sense of community and share other things than what initially
>brought them together. This happens at work, the gym or even at the
>sports bar. A mailing list is not any different; only the means of
>communication is different, but for some reason we'd like to impose a
>different set of rules and require that every participant is acting in a
>uniform way and should forget that he or she is a social being. Ignoring
>the latter fact is what usually get email lists in trouble. Worse, when
>someone acts outside the boundaries set by those rules we allow
>ourselves to
>ridicule the person and virtually lynch him or her in public, something
>we wouldn't probably even think of if we were all face to face with each
>other.
>SNIP

Thanks Alex,
A breath of fresh air!!
73 NV4V

Date: Sun, 25 Nov 2001 13:49:39 -0600
From: "George, W5YR" <w5yr@att.net>
To: myetsko@insydesw.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [112840] Re: OT: Ear Wax Removal
Message-ID: <3C014B53.1CE80A96@att.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Ya know, 99% of all this OT earwax "stuff" (polite term) would never have happened if Karl had just said:

"Went to the doctor and he treated me, and now I can hear better than in 1991."

Sometimes people tell you more than you really want to know . . . not out of malice but because they seem to feel that you are as interested as they are.

72/73, George W5YR - the Yellow Rose of Texas QRP-L 1373 NETXQRP 6
Fairview, TX 30 mi NE of Dallas in Collin county EM13qe SOC 262
Amateur Radio W5YR, in the 56th year and it just keeps getting better!
Icom IC-756PRO #02121 Kachina #91900556 IC-765 #02437

Date: Sun, 25 Nov 2001 13:25:00 -0700 (MST)
From: Chris Trask <ctrask@primenet.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [112841] An OT Comment About OT Discussions :{)
Message-ID: <Pine.BSI.3.96.1011125131522.19336A-100000@usr06.primenet.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Since we're making OT comments in an OT discussion about OT subjects, I thought I would toss my \$0.02 into the foray.

For many years I have met and admired many individuals who have pulled the plug on technology and now work for the National Forest Service, the National Park Service, and anywhere else where they can find refuge from the stress of accomodating all of this nonsense. I know of one woman who lives in a cabin outside Jerome, Arizona. No telephone. No electricity. A wood burning stove, a kerosene lantern, and lots of books. I already have the lantern and the books, and I look forward to the day

when I will be able to comfortably pull the plug myself.

I spent nine days last month rowing a raft down the Grand Canyon. Except for the sound of the water, it was perfect peace and quiet. The anxiety of facing ten-foot-tall waves in rapids was less stressful than reading a single posting of pablum induced dribble coming from some distraught individual who lacked the ability to simply press the delete key and get on with life.

I would suggest that everyone just take a deep breath when they see a comment or perhaps an individual that they don't care for, then press the delete key and find something useful to do or say. Or at best say nothing at all.

Chris

```

      ,-----,
     /  What's all this  \
    / extinct stuff, anyhow? \
   \-----,-----'
  _||/
oo\
(--) \
     \  .  .  \
      \  '  '  \
       \  "  "  \
        \  ( )  \
         \  '-| )__| :. \
          \  | | | | \
           \  c__; c__; '---'>.__

```

High Performance Mixers and
Amplifiers for RF Communications

Chris Trask / N7ZWY
Principal Engineer
Sonoran Radio Research
P.O. Box 25240
Tempe, Arizona 85285-5240

IEEE Member #40274515

Email: ctrask@qwest.net
<http://www.primenet.com/~ctrask>

Graphics by Loek Frederiks

Date: Sun, 25 Nov 2001 12:57:51 -0700
From: "Bob Hightower" <nk7m@extremezone.com>
To: "Brian Kassel" <bkassel@dancris.com>
Cc: "qrp list" <qrp-l@lehigh.edu>
Subject: [112842] Re: [azqrp] Hamfest at Mesa CC
Message-ID: <007c01c175eb\$8440fb20\$46127d3f@de11>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

How about 146.46?

Bob

----- Original Message -----

From: "Brian Kassel" <bkassel@dancris.com>

To: "Bob Hightower" <nk7m@extremezone.com>

Cc: "mike" <mgolini@home.com>; "azqrp" <azqrp@extremezone.com>

Sent: Sunday, November 25, 2001 10:41 AM

Subject: Re: [azqrp] Hamfest at Mesa CC

> Hi Mike and Bob:

>

> Yep. I'll be there the evening before with my motor home. I didn't
> actually plan to have a table, but I can set up one and sell a few
> things of mine anyway along with others. There is one golden rule
> though. You MUST hang around the table or get someone to watch it for
> you. Also if someone else is watching your stuff, you need to give that
> person the least that you will take for it, and have the items clearly
> marked with what price you wish to sell the item for.

>

> I think that we will be using 146,42 simplex for intercom around the
> hamfest area.

>

>

> Brian K7RE

>

> Bob Hightower wrote:

> >

> > Yeah, I think Brian is going to be there in his MH, and Bertie and I
will be

> > there with our trailer....sure to be space someplace.

> >

> > Bob

> > ----- Original Message -----

> > From: "mike" <mgolini@home.com>

> > To: "azqrp" <azqrp@extremezone.com>

> > Sent: Saturday, November 24, 2001 5:00 PM

> > Subject: [azqrp] Hamfest at Mesa CC

> >

> > > Is anybody going to have a table at this years Hamfest at Mesa
Community

> > > College? I have some items that I would like to try to sell but don't
> > need

> > > a whole table.

> > >

> > > Items include:

> > >

> > > 1) Tektronics TDS250 scope with 2 10X probes and manuals
> > >
> > > 2) BK Precision Function Generator
> > >
> > > 3) MFJ-941 Antenna Tuner
> > >
> > > 72
> > > Mike Golini, K1SLT
> > >

Date: Sun, 25 Nov 2001 12:15:51 -0800 (PST)
From: =?ISO-8859-1?Q?"KB=D8VCC"?= <kb0vcc@yahoo.com>
To: qrp-1@Lehigh.EDU
Subject: [112843] Re: [Elmer 101] -- dumb soldering questions
Message-ID: <20011125201551.30379.qmail@web13805.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

> > Always, but ALWAYS clip AFTER soldering. Use small
>
> I disagree. There are many times where forming and trimming
> leads BEFORE
> soldering is a better choice. For example the K1 or K2
> from Elecraft.

...and...

>The assertion was ALWAYS insert, solder, clip.... By
>offering a single exception I disproved the assertion.
>Classical
>logic.

Rod is right. I should have qualified my post
with thru-hole-only, single-side-components, so-on,
so-forth, blah, blah, blah... I made the assumption
that that Chris was referring to that scenario, as that
is typical for most parts in most kits. To pre-trim
every component would be ridiculously tedious and
I was trying to spare him that.

>
> > diagonal cutters (aka, "dikes") to cut the leads as
> flush
>

> "dikes" won't give a nice "professional" flush cut. You
> need FLUSH
> CUTTERS.

My mistake. What I use look exactly like diagonal cutters but close flush (actually, a bit concaved) on the bottom. I thought all dikes were made like these, but research proved otherwise. I do have a pair of Xcelite flush cutters, but tend to use those just to cut wire as my dike-looking-cutters work much better at trimming leads. Mostly because they are quite small, with jaw length just 1/4". They can cut close and flat enough to shave the pad off the board, so despite their appearance, by definition, I guess they aren't REAL dikes. Sorry to mislead anyone based on my small sample size. They came from a service-tech' tool kit (which BTW referred to them as "diagonal cutters"). Only marking on them is "Made in U.S.A.". I've no idea the brand.

> > to the solder joint as possible. Use a HOT iron with a
> ^^^^^^^^^^^^^^^^^
> >
>
> To be more precise, about 700 DEG C works best for most
> PCB/Component
> work.

I've no idea the temp of my iron. Someday, I'll bring myself to fork over the bucks for a high-end Weller. Years of success, absent of poor joints or stressed boards/etches, leaves me with little motivation to upgrade. 'course, I'm talkin' thru-hole here. Haven't dabbled much in the fine art of SMT...

72/73!

Dale

=====

"There is a very fine line between "hobby" and "mental illness." --Dave Barry

=====

Dale Anderson	In the Mt Washington Valley
KB0VCC	Conway, New Hampshire
QRP-L #91 / CQC #251	Grid Sq: FN43KX
ARS #234 / FISTS #3172	http://www.qsl.net/kb0vcc

=====

Do You Yahoo!?

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<http://geocities.yahoo.com/ps/info1>

Date: Sun, 25 Nov 2001 20:15:53
From: "Mike WA8BXN" <hubby2k@hotmail.com>
To: qrp-1@Lehigh.EDU
Subject: [112844] Moderation
Message-ID: <F265XERaQjPAJfd0H0w0001e4f8@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

The title of this message says it all. No, not a person or program that decides what is allowed or not, but some common sense. We are hams interested in QRP. This is probably the best place on the internet to get the most up to date information available on that topic. But we are also a community of people, who are getting to know each other, and do have concern for each other beyond just technical issues. I don't think anyone minds some off topic posting, the problem is when it dominates the resource. Rod I thik it was that suggested starting a another list or forum for off topic discussion. In some ways, that could be a great idea, to which I would offer this little ammendment...

Let's use the alternate facility for lengthy off topic discusion. But to make it work, announcing the discussions, and maybe even starting them here is fine. But when an off topic discussion here gets long, take it there! If you start a topic that is clearly off topic here, mention in that first message that replies should be taken to the other place, post its address here for those that might not know it, and also post a copy of the message on that alternate place to which people can reply.

And in any event, please be courteous at all times, personal attacks or comments are not appropriate anywhere!

73/72 - Mike WA8BXN

Get your FREE download of MSN Explorer at <http://explorer.msn.com/intl.asp>

Date: 25 Nov 2001 15:24:24 EST
From: Michael Goins <mgoins@usa.net>
To: qrp-1@lehigh.edu

Subject: [112845] Re: [Moderation]
Message-ID: <20011125202424.14643.qmail@cpdvgl00.netaddress.usa.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: quoted-printable

I've never met Karl, but he's like any of the other 2,000 plus posters to the list. He's one of the qrp guys I occasionally talk to or listen to. The only real problem here is that Karl continued on a subject past what we really needed to know. I, for one, was interested in his health problem as it affected his ability to operate CW. Knowing it was cleared up with a visit to the doctor was sufficient information. All of the snide remarks made only cluttered up the list more. =

Karl is "one of the guys" on the list. His health, like that of any of the "other guys" matters to me (same as John, Rod, Henry, Phil, Larry, etc.).= Glad he's okay now. Enough about wax. On to radio and antennas.

mike
wb5yjx

"Mike WA8BXN" <hubby2k@hotmail.com> wrote:
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p

Get free e-mail and a permanent address at <http://www.amexmail.com/?A=3D1=>

Date: Sun, 25 Nov 2001 15:34:12 -0500

From: "w2wurjj@bellatlantic.net" <w2wurjj@bellatlantic.net>

To: "mgoins@usa.net" <mgoins@usa.net>,
"qrp-1@lehigh.edu" <qrp-1@lehigh.edu>
Subject: [112846] Re: [Moderation]
Message-ID: <RELAY3MasiZAPG4vEja00000d83@relay3.softcomca.com>
Content-Transfer-Encoding: Quoted-Printable
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

Does this reflector have guidelines or a moderator? Earwax is getting to be
nausum. See below for mutual feelings.

Original Message:

From: Michael Goins mgoins@usa.net
Date: 25 Nov 2001 15:24:24 EST
To: qrp-1@Lehigh.EDU
Subject: Re: [Moderation]

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mike
wb5yjx

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73/72 - Mike WA8BXN

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Get free e-mail and a permanent address at <http://www.amexmail.com/?A=3D1>

mail2web - Check your email from the web at
<http://mail2web.com/> .

Date: Sun, 25 Nov 2001 15:35:14 -0500
From: "Brice D. Hornback" <bdh@cyberbound.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [112847] [Elmer 101] RF Probe
Message-ID: <22b901c175f0\$b0638ec0\$7001a8c0@lwrnc1.in.home.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hello everyone! Check out my version of the RF Probe. As with most projects, I always have trouble finding just the right enclosure. This was no exception. I wanted something small, metal, and with a point on one end. I looked and looked... and just couldn't find anything "perfect". I like the idea of putting it inside a pen, but that's still too large and it's not shielded. THERE! Sitting right in front of me I found the solution. I managed to cram it all inside a 1/8" shielded phono jack!

http://www.qrpp-i.com/KA8MAV_RF_Probe.htm

Let me know what you think.

72/73 DE KA8MAV (Brice)
Indianapolis, IN EM79au
QRPP-I #1, QRP ARCI #10972, QRP-L #2360, ARRL
KLQRP, FPQRP -156, ARS #1,138, NETXQRP #27
AOL Instant Messenger ID: ka8mav

QRPP International & Tiny-Tornado Transceiver Kits
<http://www.QRPP-I.com>

Date: Sun, 25 Nov 2001 12:36:57 -0800
From: "William Phinizy" <k6whp@gte.net>
To: "QRP-L" <qrp-l@Lehigh.EDU>
Subject: [112848] YAQ: Installing a TiCK keyer in an OHR 100..
Message-ID: <002e01c175f0\$ee115a40\$a4ab173f@k6whp>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

(YAQ = yet another question). Sorry to flood the list with my questions, but that's what happens when I work through Thanksgiving weekend and my projects pile up.

Has anyone installed a stock TiCK keyer board in any OHR 100 rig and dumped the sidetone in the audio chain instead of using the piezo enunciator? I was looking for recommendations on (1) the resistor divider values you used and (2) at what point did you input the TiCK audio into the OHR circuit.

Many thanks in advance..

72,

Bill, K6WHP.

Date: Sun, 25 Nov 2001 15:36:31 -0500
From: "Mike Yetsko" <myetsko@insydesw.com>
To: <kb0vcc@yahoo.com>,

"Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [112849] Re: [Elmer 101] -- dumb soldering questions
Message-ID: <001901c175f0\$f218d8c0\$0600a8c0@charter.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

The little flush cutters I've seen referred to as 'Nippy Cutters'. They have a common characteristic in that they grind the cutting edge as a single angle. That way the 'back side', the side against the board, will be a 'flush cut'.

The ones at Radio Shack for about \$5 or so actually are pretty good. They just are a bit soft. So if you only cut component leads you're generally ok. Cut something more substantial like a heavy wire and you quickly turn your flush cutters into strippers with the 'hole' you'll place in them.

Mike

Date: Sun, 25 Nov 2001 13:44:29 -0700
From: "Rod N0RC" <rod@n0rc.com>
To: <kb0vcc@yahoo.com>,
"Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [112850] Re: [Elmer 101] -- dumb soldering questions
Message-ID: <004301c175f1\$fb24b6e0\$6401a8c0@c919125b>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 8bit

----- Original Message -----
From: "KB VCC" <kb0vcc@yahoo.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Sent: Sunday, November 25, 2001 1:15 PM
Subject: Re: [Elmer 101] -- dumb soldering questions

...nuff said about all that other stuff...

> > To be more precise, about 700 DEG C works best for most
^^^^^^^^^^

My error here S/B 700 Deg. __F__. Mia Culpa.

> > PCB/Component

> > work.

>

> I've no idea the temp of my iron. Someday, I'll bring

Don't worry about it. It's probably one of the 25-40W pencil types suited for solder small components and PCBs. I bet it's temp is about ~700 Deg. F.

Happy Holidays

73, Rod N0RC

Ft Collins, CO

Date: Sun, 25 Nov 2001 13:50:54 -0700

From: "Rod N0RC" <rod@n0rc.com>

To: <bdh@cyberbound.net>,

"Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

Subject: [112851] Re: [Elmer 101] RF Probe

Message-ID: <005301c175f2\$e05ad870\$6401a8c0@c919125b>

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

What a cool idea! Warming up the iron and digging through the junk box, I know I have all the parts, just have to find them.

Thanks Brice.

Happy Holidays

73, Rod N0RC

Ft Collins, CO

----- Original Message -----

From: "Brice D. Hornback" <bdh@cyberbound.net>

To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

Sent: Sunday, November 25, 2001 1:35 PM

Subject: [Elmer 101] RF Probe

> Hello everyone! Check out my version of the RF Probe. As with most

> projects, I always have trouble finding just the right enclosure.
This was
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one end.
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> shielded. THERE! Sitting right in front of me I found the
solution. I
> managed to cram it all inside a 1/8" shielded phono jack!
>
> http://www.qrpp-i.com/KA8MAV_RF_Probe.htm
>
> Let me know what you think.

Date: Sun, 25 Nov 2001 21:14:12 +0000
From: "Leon Heller" <leon_heller@hotmail.com>
To: qrp-1@Lehigh.EDU
Subject: [112852] Measuring xtal parameters for filters
Message-ID: <F191SaVkpCCuc5bWsgH00010474@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

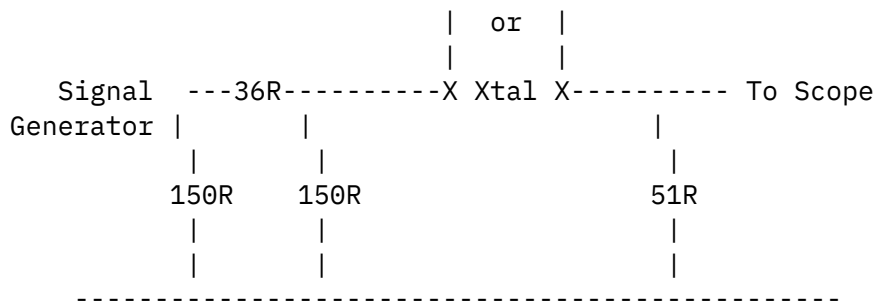
Just to get a feel for what was involved, I made up the following little test jig on a scrap of PCB material. I haven't got a suitable 100R pot, so I just measured the series and parallel resonant frequencies. It was quite easy, but I do have a couple of rather nice Marconi 2019A synthesised signal generators I picked up quite cheaply which have a max. resolution of 10Hz. The two frequencies for an 8 MHz crystal turned out to be

$F_s = 7.99796 \text{ MHz}$
 $F_p = 8.01207 \text{ MHz}$

I bought 10 of them for making filters, I'll test a couple of the others to see how much variation there is.

It's probably not worth measuring the parallel plate capacitance. It's essentially the capacitance of the package and is usually about 3.5 pF, so I'd just use this value.

100R pot



The 3 dB pad helps to isolate the crystal from the signal source.

When I get the pot I can measure the motional resistance. It's usually less than 100R. The actual technique is described here:

<http://www.electronics-tutorials.com/filters/filter-software.htm>

73, Leon

--

Leon Heller, G1HSM Tel: +44 1327 359058 Email:leon_heller@hotmail.com

My web page: http://www.geocities.com/leon_heller

My low-cost Altera Flex design kit: <http://www.leonheller.com>

Get your FREE download of MSN Explorer at <http://explorer.msn.com/intl.asp>

Date: Sun, 25 Nov 2001 16:14:25 -0500
From: Bruce Muscolino <w6toy@erols.com>
To: k5di@zianet.com
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [112853] Re: Ear Wax Removal
Message-ID: <3C015F31.816D1EC9@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Oh my G*d. Babies are known to be fascinated by bodily functions. I thought Karl was retired!

Date: Sun, 25 Nov 2001 16:26:16 -0500
From: Bruce Muscolino <w6toy@erols.com>
To: bdh@cyberbound.net

Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [112854] Re: 13.5 MHz IF Anybody
Message-ID: <3C0161F8.36AB68E7@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Use a mixer. I like my Kitchen Aid!

The two crystals are each placed in oscillator circuits, and the oscillator outputs are mixed with a mixer. Possible options include using a NE602 or ME612. There are many mixer circuits.

73

Date: Sun, 25 Nov 2001 16:29:12 -0500
From: Bruce Muscolino <w6toy@erols.com>
To: wb2vuo@frontiernet.net
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [112855] Re: Ear Wax and QRP
Message-ID: <3C0162A8.DF0E91C4@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

First I'd go see my doctor. After hearing the diagnosis, I would do the treatment and keep my private life private!

73

Date: Sun, 25 Nov 2001 16:32:51 EST
From: WE7X@aol.com
To: QRP-L@lehigh.edu
Subject: [112856] RE: PI output network theory Question
Message-ID: <de.1e0bc7fb.2932bd83@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Thanks for all the replies. I apologize for the missing name. It is Rod.
I have to agree that I would probably be better off without this 'mod.'
My original question was "What would be gained by adding..."?
A few have indicated that it might have been a way to try to compensate

for a 'short' antenna such as an electrically short random wire. I guess that is as good as any answer, but a random wire can also be a bit 'long,' and therefore inductive. Maybe the original owner was trying to work on 80M and didn't have enough space.

It seems strange that anyone would go to the trouble of modifying the case and internals for 'half of a tuner." I would think if they were going to go to the trouble of adding a dozen inductors and a twelve position switch, they should have also added the variable cap, and then they would have had a whole L-network tuner in the case.

Strange!

Thanks again,

Rod

WE7X

Issaquah, WA.

Date: Sun, 25 Nov 2001 16:35:04 -0500
From: "Brice D. Hornback" <bdh@cyberbound.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [112857] Re: [Elmer 101] RF Probe
Message-ID: <22e801c175f9\$0ea538a0\$7001a8c0@lwinc1.in.home.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Ok, now that I've got a RF Probe... it's time to do something with it. :-)

What is the potential barrier voltage of a 1N34A diode? I've seen references to 0.25V. Here's the info on the diode I'm using:

1N34A

Small Signal Detector Germanium Diode.

Case Style DO-7

Repetitive Peak Reverse Voltage (VRRM): max 75 V

Output Current (IO): 50mA

Forward voltage instantaneous total value (VF): 1.0V

Does this mean the barrier voltage is 1.0V? I know it's not terribly accurate (especially at voltages under 1V), but I'd like to use it to measure output power. Using 1.0V as the barrier voltage, (and 10.74V into a 50 ohm load) I get 2.75 Watts Out on my SW-40+ which is very close to what I show on my power meter. The Tiny-Tornado is at 4.02V (504 mW Out). Does this seem correct?

Here's the formula I'm using:

$PWR = ((volts + 1.0) * (volts + 1.0)) / 50$

Like I said, I know it's not the most accurate measure of output power... but it should be close.

Or... am I way off here?

72/73 DE KA8MAV (Brice)
Indianapolis, IN EM79au
QRPp-I #1, QRP ARCI #10972, QRP-L #2360, ARRL
KLQRP, FPQRP -156, ARS #1,138, NETXQRP #27
AOL Instant Messenger ID: ka8mav

QRPp International & Tiny-Tornado Transceiver Kits
<http://www.QRPp-I.com>

----- Original Message -----

From: Rod N0RC <rod@n0rc.com>

To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>

Sent: Sunday, November 25, 2001 3:50 PM

Subject: Re: [Elmer 101] RF Probe

> What a cool idea! Warming up the iron and digging through the junk
> box, I know I have all the parts, just have to find them.

>

> Thanks Brice.

>

> ***Happy Holidays***

> 73, Rod N0RC

> Ft Collins, CO

>

> ----- Original Message -----

> From: "Brice D. Hornback" <bdh@cyberbound.net>

> To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

> Sent: Sunday, November 25, 2001 1:35 PM

> Subject: [Elmer 101] RF Probe

>

>

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> > Let me know what you think.
>
>

Date: Sun, 25 Nov 2001 16:39:39 -0500
From: Bruce Muscolino <w6toy@erols.com>
To: mgoins@usa.net
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [112858] Re: [Moderation]
Message-ID: <3C01651B.47733640@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I will agree, we should all be friends, and should play "nice nice" together. Nut, if you sat down next to someone at a bar, or coffee shop, and he started telling you about what should be his most private matters, would you stay there?

73

Date: Sun, 25 Nov 2001 15:56:07 -0600
From: Lew Paceley <lew@paceley.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [112859] Re: Is it just me...absorptive bridge info (long)
Message-ID: <008a01c175fb\$fcf2dba0\$6501a8c0@swbell.net>
MIME-version: 1.0
Content-type: text/plain; charset=Windows-1252
Content-transfer-encoding: 7BIT

Hi Rod,
The absorptive SWR bridge is a type of Wheatstone bridge circuit. There's a good explanation of how the Wheatstone bridge works in the ARRL 2000 Handbook (page 26.7).

Because it's a bridge, no current will flow between the two sides of

the bridge when the SWR is 1:1 because all resistances (including the antenna system) in both sides of the bridge are 50 ohms. Said differently, the voltage at the center of each side of the bridge will be the same so no current can flow in the center leg since a potential difference must exist in order for current to flow.

When the antenna system presents an impedance higher or lower than 50 ohms (creating an SWR > 1:1) then current will flow through the center leg of the bridge. The LED indicator circuit rectifies some of the RF current which flows through the center leg of the bridge causing it to light the LED when the bridge becomes unbalanced. When the antenna system impedance is 50 ohms the bridge is balanced (no current flowing) which is why the LED extinguishes.

Hopefully I didn't mangle this too badly :-)

<from a previous QRP-L posting>
Here's a simple "demo" showing the load seen by the transmitter using 50 ohm resistors for R1,R2,R3. Note that I've used simple resistive impedances just to keep things simple :-)

R(load) is the load seen by the transmitter. R1 and R2 in series are the left leg of the bridge. R3 and R4 in series are the right leg of the bridge, where R4 is our antenna system impedance. Since the two legs are in parallel:

$$R(\text{load}) = (R1+R2)(R3+R4) / (R1+R2) + (R3+R4)$$

Since $R1=R2=R3=50$:

$$R(\text{load}) = (100)(50+R4) / 100 + (50+R4)$$

Antenna is short-circuited to ground: $R4=0$ ohms

$$R(\text{load}) = 100(50+0) / 100 + (50+0)$$

$$R(\text{load}) = 33.33 \text{ ohms}$$

Antenna is open-circuited: $R4=1M^*$ ohm

*Larger values yield nearly the same result!

$$R(\text{load}) = 100(50+1,000,000) / 100 + (50+1,000,000)$$

$$R(\text{load}) = 99.99 \text{ ohms}$$

So the rig sees an impedance from 33 ohms to 99.99 ohms, always less than 2:1 SWR...Ohm's law magic ;-) Have fun.

72/73,

Lew

N5ZE

Date: Sun, 25 Nov 2001 16:46:11 -0800
From: "Dave Benson" <nn1g@earthlink.net>
To: <rod@n0rc.com>,
 "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Cc: <cjl@mitre.org>, <sslyon@megalink.net>
Subject: [112860] KIT: ... Noise Generation Board to Use
Message-ID: <00ba01c17614\$41c900c0\$4655d03f@pavilion>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

They are indeed easy to construct no matter what the construction method-
parts count is very modest!

They should be available again in kit form pretty soon. I'm now awaiting
prototypes of a noise bridge board- they shipped from AP Circuits on Friday.
It will be offered as an inexpensive kit under the auspices of the New
England QRP club (remember them?). Details will be announced as soon as
things firm up.

The idea of a noise bridge board kit was proposed at last August 4th's NE
club meeting in Newington, CT. I'm in the process of doing some antenna
work, so the board made sense from a 'synergy' standpoint.

73- Dave Benson, K1SWL

-----Original Message-----
From: Rod N0RC <rod@n0rc.com>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Date: Sunday, November 25, 2001 9:49 AM
Subject: Re: Need Noise Generation Board to Use with Spectrogram

HMM,

To bad they're not available in kit form any longer. BUT, if the
schematic is published somewhere this would make a dandy Manhattan
Style Construction project.

Date: Sun, 25 Nov 2001 14:07:29 -0800
From: "Bill Jones" <kd7s@psnw.com>
To: <kr1st@amsat.org>,
 "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [112861] Re: Magnetic loop pictures
Message-ID: <005d01c175fd\$9a06d800\$2e8d6bd1@microsoft>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Congratulations Alex, on your loop.

I would like to offer a couple observations based on my own experience with small loops. The antenna's bandwidth, especially on 20 meters suggests there may be a fair amount of IR loss in the antenna. There are two possibilities. First, the clips used to connect the coax capacitors to the main tuning capacitor will indeed introduce a few milliohms of resistance. As a test, bridging the clip with a soldered piece of braid from a small piece of coaxial cable. Check your bandwidth on 20 meters and see if it doesn't decrease. Second, if you're using the antenna inside it is probably coupling to other metal objects. Try taking the loop outside and getting it well away from any kind of metallic objects and running a bandwidth test again. If you are getting much more than a 7-10 kHz bandwidth on 20 meters you no doubt have excessive losses.

=====
Bill Jones - KD7S <><
Sanger, California
=====

Date: Sun, 25 Nov 2001 15:45:38 -0500
From: Steven Weber <kd1jv@moose.ncia.net>
To: qrp-1@lehigh.edu
Subject: [112862] Re: Need Noise Generation Board to Use with Spectrogram
Message-ID: <3.0.6.32.20011125154538.0079b9c0@mailhost.ncia.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

>>

>> Does anybody know if the schematic is available in the public domain

>> for such use?

>

RF noise sources are little more than a zener diode and a wide band amp. The zener makes the noise and the amp brings it up to a usable level. Every ARRL Handbook has a noise generator circuit/project described in it.

Everyone should have a Handbook, there is a wealth of info in there!

72,

Steve, KD1JV

White Mountians of New Hampshire

<http://www.qsl.net/kd1jv/>

Date: Sun, 25 Nov 2001 17:43:06 -0500
From: Russell Hines <wb8zcc@one.net>
To: QRP-L Discussion Group <qrp-l@Lehigh.EDU>
Subject: [112863] KD1JV's power meter kit
Message-ID: <3C0173FA.BF49E2E3@one.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Okay, okay, so it sat on my desk waiting for 6 months, but I finally got around to building Steve's power meter kit. What a neat little device. I considered modifying it for lower power levels, but I think I'll just keep it as designed. Thanks, Mr. Weber, for another fun experience. BTW, the PIC seems to work just fine.

Why did it take so long? I spend quite a bit of time traveling for business. This last trip I fixed up a "traveler's kit building kit" and took the power meter kit on the road. Built it in about 2 evenings in a Clarion hotel room. And I even managed not to set off the smoke detector while soldering. ;-)

--

73,

Russ Hines

WB8ZCC

Date: Sun, 25 Nov 2001 17:46:26 -0500
From: Haines Brown <brownh@hartford-hwp.com>
To: kandrparker@sympatico.ca

Cc: qrp-1@Lehigh.EDU
Subject: [112864] Re: [Elmer 101] -- dumb soldering questions
Message-ID: <200111252246.fAPMkQk15565@hartford-hwp.com>

As for the tool to clip excess lead lengths after or before soldering, I recommend the Xcelite 170M. It is designed for this purpose rather than the general purpose diagonal pliers, and is inexpensive. It does tend to throw the clipped piece of lead, however.

(no connection with Xcelite disclaimer)

Haines KB1GRM

Date: Sun, 25 Nov 2001 15:58:14 -0700 (MST)
From: "Karl F. Larsen" <k5di@zianet.com>
To: <qrp-1@lehigh.edu>
Subject: [112865] CQ WWDX
Message-ID: <Pine.LNX.4.33.0111251539110.2200-1000000@cannac.fun>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I'm at the point on 10 and 15 meters that I have worked all the loud DX. 20 meters is nothing but loud Non-DX. So it's time to quit after a fun weekend. My first effort at a relaxed contest has been a big success!

Friday night it looked like QRP was going to be the way. I worked all I could hear on 10 meters. Saturday nothing but weak signals and they didn't hear me at all. Saturday evening and the 10 and 15 meter bands get better and QRP works again. Sunday morning 10 was hopping and it got to be a real log jam. I was hearing stateside and europe and South America and Japan about the same strength. I played with what I could copy and wondered if a real contest receiver would have the same problems I am having with the Yaesu FT-817 with mechanical filter. I suspect even the best receiver would have trouble with 3 stations about 200 Hz apart japping along with variable speeds from 20 to 60 wpm.

In the past 30 years this is the first DX contest I entered with the approach of using QRP and taking it easy. I will do the same thing next year. As the wind kicks up over 50 MPH and the barometer creeps back up from a dark hole, I'm glad the beam didn't blow down,

My final score is 7595 and I will count up countries and zones. I should be on my way to working all zones as well as 100 DX stations.

--

Yours Truly,

- Karl F. Larsen, k5di@arrl.net (505) 524-3303 -
<http://www.qsl.net/k5di/>

Date: Sun, 25 Nov 2001 17:56:07 -0500
From: mikemo@attglobal.net
To: qrp1 <qrp-1@lehigh.edu>
Subject: [112866] [Elmer 101] update
Message-ID: <3C017707.B93EBF20@attglobal.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Gang,

I just wanted to give everyone who is interested in the class an update. I'm going to wait another week before we start construction. Dave from Small Wonder Labs had some supplier issues so we have some people who are still waiting for kits. Don't panic, we'll have plenty of time to go through everything. I don't want to rush.

Looks like we have a big crew this time!

Regards,

Mike Maiorana, KU4Q0

Date: Sun, 25 Nov 2001 18:57:20 -0400
From: "Dave Marling" <dbm@klis.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [112867] Re: KD1JV's power meter kit
Message-ID: <000d01c17604\$8aae25a0\$c9aae2d1@klis.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

> business. This last trip I fixed up a "traveler's kit building kit" and
> took the power meter kit on the road. Built it in about 2 evenings in a

That's what I need - a few business trips to get some of my kits finished!
Steve's kit is still in the bag, the Warbler needs a case, my TENTEC swr

meter is waiting to be calibrated and I have several other TENTEC kits somewhere in the layers on my workbench. Oh yes, and there are a couple of PIC projects that I should really take off the breadboard.

But, cold weather is nearly here so it will soon be time for the annual antenna projects.

Not enough time, not enough time!!!

73,
Dave
VE1VQ

Date: Sun, 25 Nov 2001 18:06:48 -0500
From: mikemo@attglobal.net
To: qrp1 <qrp-1@lehigh.edu>
Subject: [112868] [Elmer 101] pc board prep
Message-ID: <3C017988.6E13539A@attglobal.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Just in case anyone wanted to hear this from "the source", the circuit board that is supplied with your SW-20+ kit does NOT require any type of preparation or cleaning. It is a very high quality board that is ready to assemble right out of the bag. Also, the components supplied with the kit do not require any cleaning before they are assembled.

I appreciate all the input we had on the subject. It was, however, a bit overwhelming. Students, read all the posts, but digest them with care. Sometimes the most well meaning advice can be deleterious.

So, read up, but keep your eyes open for posts from me regarding the actual assembly of the kit.

Regards,
Mike Maiorana, KU4QO

Date: Sun, 25 Nov 2001 18:09:13 -0500
From: jccurlee@juno.com
To: qrp-1@Lehigh.EDU
Subject: [112869] multiple emails
Message-ID: <20011125.180914.-424213.1.jccurlee@juno.com>

MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Carl, what's going on with these multiple messages? I'm tired of deleting 'em.

Date: Sun, 25 Nov 2001 18:13:40 -0500
From: mikemo@attglobal.net
To: bdh@cyberbound.net
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [112870] Re: [Elmer 101] RF Probe
Message-ID: <3C017B24.46A03AFC@attglobal.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Brice,
That is a GREAT idea for an enclosure for the RF probe.

Everything I've read regarding Germanium diodes says their forward voltage drop is .2 - .3 volts. I'm not sure what the 1 volt rating is.

I'm going to cobble together my own probe (probably like yours ;-) and do some measurements with a signal generator. Perhaps I can come up with some interesting data. I was planning on doing it this weekend but I've been preoccupied studying for a Calculus exam that is coming up tomorrow. Maybe by mid-week?

Regards,
Mike Maiorana, KU4QO

"Brice D. Hornback" wrote:

>
> Ok, now that I've got a RF Probe... it's time to do something with it. :-)
>
> What is the potential barrier voltage of a 1N34A diode? I've seen
> references to 0.25V. Here's the info on the diode I'm using:

Date: Sun, 25 Nov 2001 17:22:52 -0600
From: Ted Kell <tedkell@ev1.net>
To: rod@n0rc.com, Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [112871] Re: proposal for dealing with OT
Message-ID: <200111251722502.SM00138@tedkell>
Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

11/25/01 8:42:33 AM, "Rod N0RC" <rod@n0rc.com> wrote:

>Let's start another list, we can do it for free using Yahoo Groups,
>we'll call it QRP-L-OT.

>

>Anything goes, topics allowed but are not limited to:

>

>o Ear Wax

>o computer viruses

>o toe-jam removal

>o non radio uses for Altoids Tins

>o Chile recipes

No, no, leave the chile recipes here.

Otherwise it sounds like a nice quiet place.

N3Ted

>o irrational rant on any topic you choose...

>

>Give me the word and I set it up.

>

>So if we do set up QRP-L-OT how long will it be before OT posts on
>radio topics start appearing?

>

>***Happy Holidays***

>73, Rod N0RC

>Ft Collins, CO

>

>

>

Date: Sun, 25 Nov 2001 18:31:22 -0500

From: "Brice D. Hornback" <bdh@cyberbound.net>

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: [112872] Re: [Elmer 101] RF Probe

Message-ID: <234801c17609\$4e202fc0\$7001a8c0@lwinc1.in.home.com>

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

I've had several people ask for more detail regarding how I fit all the parts inside the 1/8" phono jack. So, I've included a couple more photos on the site. The last photo really shows exactly how I did it. You use the bodies of the parts to insulate themselves from things they aren't supposed to touch. Yes, that's even a 1/2 watt resistor in there. The parts are soldered to the jack and the wires are soldered to the jack. This makes it so the wires don't stress the parts inside. It's a perfect little enclosure!

I used a gold plated header pin for the probe tip covered by a red toggle switch cover with a hole poked in the end. This helps keep the probe tip from shorting out on it's surroundings. It's best to clean the tip of the phono plug first. I used a wire brush on my Dremel but a bit of fine sandpaper would work too. This makes it a LOT easier to get the solder to stick without melting everything inside the jack.

Take a look at the close-up photos...

http://www.qrpp-i.com/KA8MAV_RF_Probe.htm

Let me know what you think.

72/73 DE KA8MAV (Brice)
Indianapolis, IN EM79au
QRPP-I #1, QRP ARCI #10972, QRP-L #2360, ARRL
KLQRP, FPQRP -156, ARS #1,138, NETXQRP #27
AOL Instant Messenger ID: ka8mav

QRPP International & Tiny-Tornado Transceiver Kits
<http://www.QRPP-I.com>

Date: Sun, 25 Nov 2001 16:35:16 -0700
From: "Francis Callahan" <colcal@srv.net>
To: <w6toy@erols.com>,
"Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [112873] Re: Ear Wax Removal
Message-ID: <003301c17609\$d7515760\$85df070c@callahan>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Thanks to Karl's posting on ear wax had mine checked and avoided a problem that was in the process of building up Thanks again Karl Cal KF7ET

----- Original Message -----

From: "Bruce Muscolino" <w6toy@erols.com>

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Sent: Sunday, November 25, 2001 2:14 PM

Subject: Re: Ear Wax Removal

> Oh my G*d. Babies are known to be fascinated by bodily functions. I
> thought Karl was retired!
>

Date: Sun, 25 Nov 2001 18:36:51 -0500

From: Alex <kr1st@amsat.org>

To: kd7s@psnw.com

Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>

Subject: [112874] Re: Magnetic loop pictures

Message-ID: <3C018093.37A42A1@amsat.org>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

Hi Bill,

Thank you for taking the time to check the data and your comments, I appreciate it. This is what I was hoping for when I put it on the page.

Bill Jones wrote:

> The antenna's bandwidth, especially on 20 meters suggests
> there may be a fair amount of IR loss in the antenna.

That's what I thought, too. What I also don't understand why the bandwidth on 15 is larger than on 12 meters. 15 meters is tuned without the coax capacitors, so it appears that something is happening in the split stator capacitor.

> First, the clips used to connect the coax capacitors to the
> main tuning capacitor will indeed introduce a few milliohms of resistance.

I realize that that was a bad choice. At first I wanted to put some kind of switch in, but didn't know which type of switch would be suitable, so I opted for the alligator clips as a temporary solution. At the time I didn't know if the loop even would resonate using coax capacitors.

> As a test, bridging the clip with a soldered piece of braid from a small
> piece of coaxial cable. Check your bandwidth on 20 meters and see if it
> doesn't decrease.

That's a good suggestion. I'll try that and see what happens.

> Second, if you're using the antenna inside it is probably
> coupling to other metal objects. Try taking the loop outside and getting it
> well away from any kind of metallic objects and running a bandwidth test
> again.

I indeed use the antenna indoors and I do try to keep it away from metal objects. The antenna does detune slightly when I rotate it, so it must be coupling with other metal objects like you suggested. Perhaps the metal base is also not very helpfull. It's very convenient though. I did make a PVC base (per QST article) but it was rather big and didn't allow the antenna to be rotated easily. I'll do another bandwidth test outside on the patio on the PVC base to see what gives.

Again, thanks for your suggestions and I'll post the results.

73s,
--Alex

Date: Sun, 25 Nov 2001 15:44:03 -0800
From: "Louie" <lou@harborside.com>
To: "QRP-L" <qrp-l@Lehigh.EDU>
Subject: [112875] Re: proposal for dealing with OT
Message-ID: <008701c1760b\$18b02780\$25352d0c@rita>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

We have all said things about OT post here. Lets do something about it. I think if all of us would put a hex on the evil doers it would stop.

Lets all stand up at 12:00GMT, raise our arms above our heads, cross our index fingers over each other, and turn around clockwise and say "I'll never do that" four time. If we do this and abide by what we say it will be over.

CUL, 72 & 73
XE2EKK, Lou

----- Original Message -----

From: "Ted Kell" <tedkell@ev1.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Sunday, November 25, 2001 3:22 PM
Subject: Re: proposal for dealing with OT

> 11/25/01 8:42:33 AM, "Rod N0RC" <rod@n0rc.com> wrote:
>
> >Let's start another list, we can do it for free using Yahoo Groups,
> >we'll call is QRP-L-OT.
> >
> >Anything goes, topics allowed but are not limited to:
> >
> >o Ear Wax
> >o computer viruses
> >o toe-jam removal
> >o non radio uses for Altoids Tins
> >o Chile recipes
>
> No, no, leave the chile recipes here.
>
> Otherwise it sounds like a nice quiet place.
>
> N3Ted
>
> >o irrational rant on any topic you choose...
> >
> >Give me the word and I set it up.
> >
> >So if we do set up QRP-L-OT how long will it be before OT posts on
> >radio topics start appearing?
> >
> >***Happy Holidays***
> >73, Rod N0RC
> >Ft Collins, CO
> >
> >
> >
>
>
>
>

Date: Sun, 25 Nov 2001 18:44:52 -0500
From: Bruce Muscolino <w6toy@erols.com>

To: k5di@zianet.com
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [112876] Re: CQ WWDX
Message-ID: <3C018274.131B79C5@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

If you stop after you have only worked the loud DX, you are missing out
on some really great stuff.

End of QRP-L Digest 2384
